

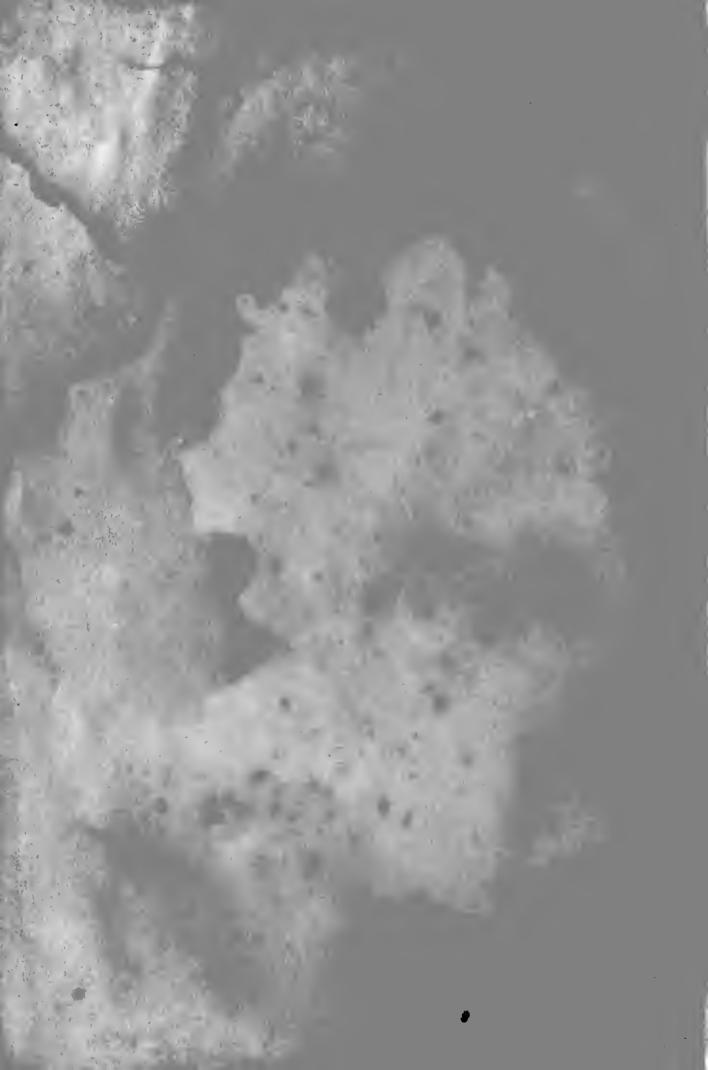
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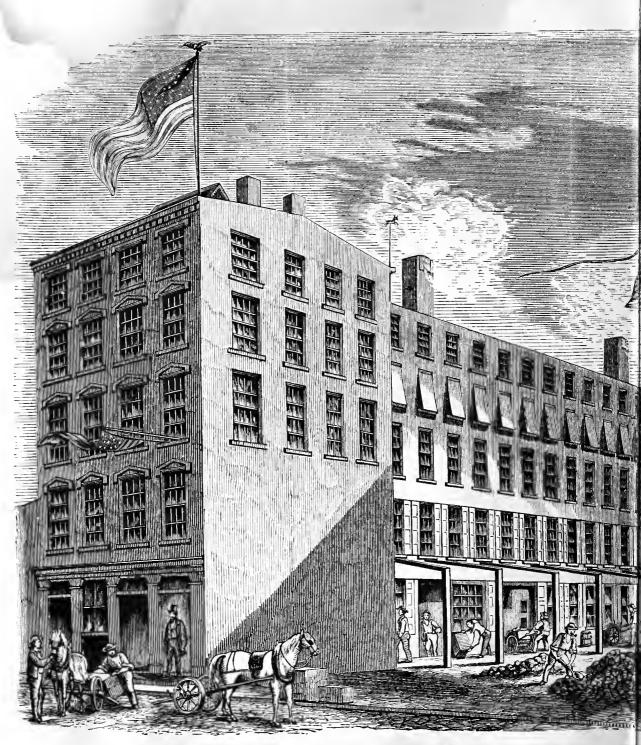
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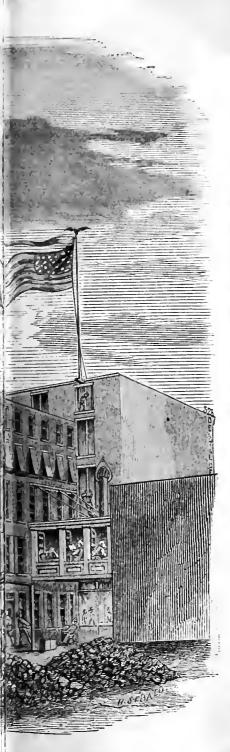


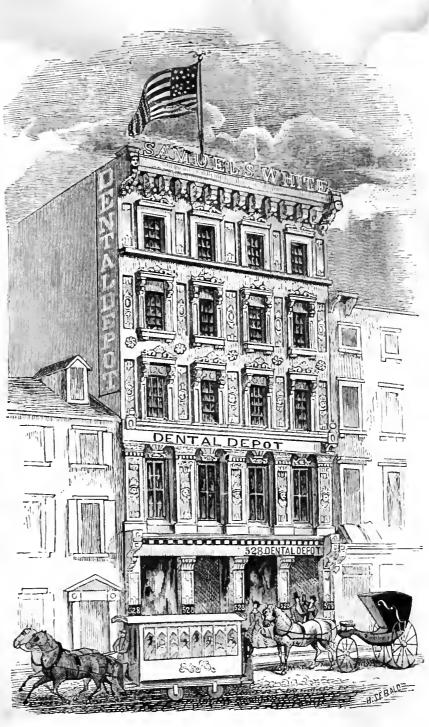






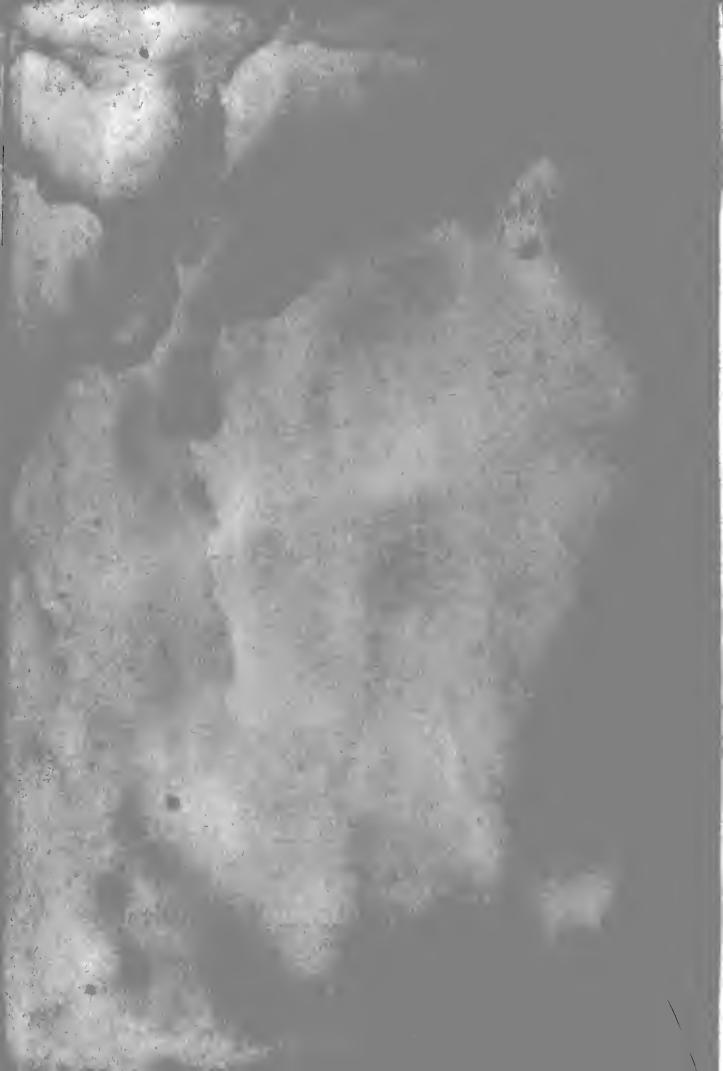
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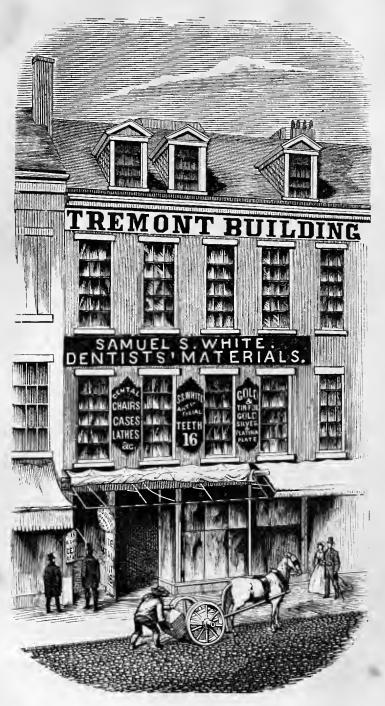




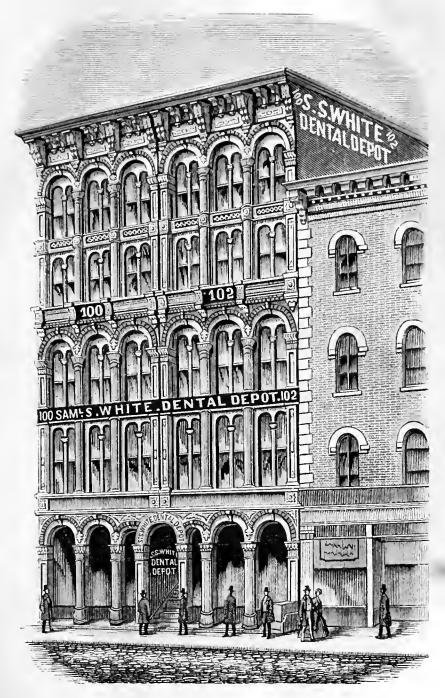
PHILADELPHIA DEPOT.

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BOSTON DEPOT.



CHICAGO DEPOT.



CATALOGUE

OF

DENTAL MATERIALS,

FURNITURE,

INSTRUMENTS,

ETC.

FOR SALE BY

SAMUEL S. WHITE,

MANUFACTURER, IMPORTER, AND WHOLESALE DEALER IN ALL ARTICLES APPERTAINING TO DENTISTRY.



JANUARY 1st, 1867.

MANUFACTORY AND PRINCIPAL DEPOT: 528 ARCH STREET, PHILADELPHIA.

BRANCHES:

767 & 769 BROADWAY, NEW YORK. 16 TREMONT ROW, BOSTON.
100 & 102 RANDOLPH STREET, OHIOAGO.

ENTERED ACCORDING TO ACT OF CONGRESS, IN THE YEAR 1867, BY SAMUEL S. WHITE,

IN THE CLERK'S OFFICE OF THE DISTRICT COURT OF THE UNITED STATES FOR THE EASTERN DISTRICT OF PENNSYLVANIA.

MANUFACTURE OF PORCELAIN TEETH.

WITH a view of enabling dentists to gratify the natural curiosity of patients as to the composition and manufacture of porcelain teeth, the following description, condensed from the editorial correspondence of the *Chicago Tribune*, is deemed a suitable preface to this catalogue.

"No part of my sojourn in Philadelphia has been more interesting to me than the visits I have paid to some of the representative industrial features of the city. The leading manufacturing enterprises whose magnitude is the growth of years, and whose products carry the name of Philadelphia manufacturers to all parts of the country and the habitable globe, are a theme I purpose to speak of in this letter. I have passed the morning among teeth. If there be, par excellence, an American specialty, it is dentistry. Time was when the dentist was to a large extent his own manufacturer of the teeth with which he contrived to supply nature's losses. It is curious now to look back at the early stages of the art, and see by what steps it found its way towards perfection. First, human teeth, parted with and sold as articles of merchandise; then a recourse to kindred animal substances, bone or ivory, the tusk of the behemoth being largely esteemed. But these had all the perishable character of organic substances, the ban of decay had been passed upon them, and so they fell into disfavor. Then the day of porcelain teeth began.

"Among the American dentists laboriously working at the problem of reproducing nature's effects in the machinery of mastication, it could but happen that the portal of happy invention must yield to some fortunate knock, and here in Philadelphia the response was first given. It is not my purpose to decide the claim of priority. It is hardly necessary to do more than show what results have grown from a happy beginning. It is not invidious to declare how very largely these come from the busy work-rooms, grinding-mills, and glowing furnaces of S. S. White's manufactory, whereof I am writing these lines. Of the superiority of his teeth, the fact that thirty-nine first premiums, including one from the great World's Fair, have been received, is sufficient proof. The building is an elegant five-story structure on the street front, connecting, with a maze of work-rooms, in large five-story buildings in the rear, which extend

through to the next street, and fill the whole space with the processes of teeth-making. Some items of interest may be acceptable to the readers of the Tribune. The imitator of the human tooth studied its structure to find at the outset that it is not homogeneous, or of one material in structure. The failure to discern this brought failure in the earliest attempts at simulation. An artificial tooth must possess certain qualities apart from size, shape, and color: a front surface which must closely resemble the enamel or external covering of the natural tooth, and a body having the toughness which allows the vigorous use of the hammer in riveting without fracture, and the use of the blow-pipe in soldering without liability to crack. If the tooth were one homogeneous mass, the requisite amount of vitrifaction necessary to imitate the enamel would render it brittle; but a proper amount of translucency must be preserved, or there will be the opaque clay-colored teeth, which proclaim their artificial character to the most casual glance; so that a nice calculation is necessary not to sacrifice beauty to strength, or render the teeth frail and valueless in the effort to make them beautiful.

"There must also be the distinctly marked clear cutting edge of enamel projecting beyond the body of the tooth, and contrasting, as in nature's work, with the yellow or brown base, and yet this depth of color in the body and translucency of the point must be so nicely blended that the line of union cannot be determined. In this establishment these and many other valuable results have been secured by a patience of research and a fidelity of application which have given the house the prosperity and the reputation it enjoys throughout the civilized world.

"The principal materials entering into the composition of mineral teeth are feldspar, silex (flint), and kaolin (clay), with various fluxes, so known in chemistry, more familiarly characterized as *glasses*, used to determine the point of fusion desired of different parts of the tooth. The general tone or tint of these materials is white or dusky yellow, so that coloring forms a prime adjunct in the process.

"The chief coloring substances are titanium for yellow, platina sponge for gray, oxide of cobalt for bright blue, and oxide of gold for red. These, with others in varying combinations, are used to color the body, point, and outside enamels. To form some idea of the immense variety of shades or grades of color capable of being produced, you have only to be told that there are more than forty shades of color in the bodies used, and an equal number in the point and outside enamels. Thus, starting with the lightest shade of body known as 'A,' you may produce forty different grades by using a different point enamel, and on each of these a different effect by the use of various outside enamels, so that with a single body of any one color you may produce 64,000 varieties or gradations of color, and as there are thirty-nine other bodies, a smart calculator can determine the many changes of which they are capable.

"It is not pretended of course that all these shades are produced, but some

idea may be formed of the need of variety by the fact that out of innumerable trials in the way of combinations, one hundred and thirty standard shades are made, duly arranged and classified by numbers, forming a gradual but quite perceptible progression from the most delicate blue white to the dark tobaccostain. For the production of these colors you are not to think of a dyer's vat, but to remember that their bath is a glowing muffle at incandescent heat.

"Realizing what would searcely enter into the thoughts of one not experienced.

—i.e. the great diversity in color of the natural organs which these are made to imitate—we see that many teeth, good in themselves, have such an artificial appearance in the month, simply because the dentist, albeit an excellent mechanic, has lacked the perception to discover the shade made necessary by the complexion, hair, and eyes of the wearer, with all which creative wisdom has made the natural organs to correspond.

"Now, if the reader is ready, we will accompany him through the apartments devoted to the manufacture. Beginning on the ground floor, we find workmen busy with the crude materials. The feldspar (found abundantly in the State of Delaware) is thrown in large masses into a furnace, and subjected to a red heat, then plunged into water, which renders it brittle and easily broken by the hammer into small pieces, so that all foreign matters, such as mica or iron, with which it may be mixed, can be separated. It is then mashed into a coarse powder, and subsequently ground under water, in a mill in which heavy blocks of French burr-stones are pushed round on a nether millstone of the same material, until it is an almost impalpable powder—so fine that it will remain suspended in water for a long time. The silex is subjected to the same process. The colors are long and patiently ground in a mortar and pestle machine, driven, as are the mills, by an eight-horse power caloric engine.

"The materials, having been dried and sifted, are carried to the mixing-room, where they are properly proportioned, and again ground in combination into the various mixtures desired. At this stage the body assumes the consistence and appearance of putty; the point enamel of a thick batter; and the outside and gum enamels of cream. The body is now ready for the moulder's-room. But we must first see how the moulds are made. They are of brass, in two or more pieces, one-half the tooth being represented on either side. Great care is necessary in the construction of these moulds, their cost varying from twenty to seventy-five dollars each. On them depend the shape and style of the teeth. They must be anatomically correct, and mechanically perfect. It is not that nature is introducing new styles of teeth as milliners their novelties, but continual approximation is being made to perfection in imitating the endless minor differences in teeth, and in adapting them to new methods of adjustment to the plates to which they are to be affixed. In this manufactory from 700 to 800 moulds are in use, making in all upwards of 10,000 shapes of teeth.

"Here is a spitefully busy little machine, too busy with one particular process to tell us what it is doing, and yet we discover that it is eating platinum wire and

spitting out tiny pins at the rate of six hundred a minute. Each comes out with a solid head like that of a brass pin, with rough indentations in the other end, so as to be firmly held in the plastic body of the tooth until fierce heat makes the union indissoluble. The strength, infusibility, and incorruptibility of platinum make it the close companion of mechanical dentistry. The consumption of this metal in the establishment reaches the substantial sum of eighty-six thousand dollars per annum.

"We come now to the moulding-room. Here we see the use of those little platinum pins, and are told that there are more than twenty varieties of size adapted to the different sizes of teeth. In each tooth matrix we discover two minute holes, which a workman, with rapid tweezers, is fitting with pins of the proper thickness and length, which are to form the future fastening of the tooth to the plate of gold, silver, or rubber. The mould is then passed to the next workman, who takes up, on a small steel spatula, the requisite amount of point enamel, and with this forms the cutting edge of the tooth, and passes the mould to his neighbor, who fills the matrix with body, then closes it. It is then pressed by machinery and deposited in the drying oven. Carefully watched, it is taken out at the proper moment and emptied of its contents, which, tender and brittle, are laid on clay slides, and subsequently subjected to the process called biscuiting, which is done by bringing them to a cherry-red heat. The teeth are now like chalk, and can be cut and filed as desired.

"From the biscuiting furnace the teeth are carried to the assorters'-room, where they are arranged in sets, and after this the members of a set keep company through all their varied experience. This work is done by small boys, whose quickness of perception qualifies them for the work, and who become so expert that they know every tooth, and the number of the mould from which it came, as well as they know each other. Arranged in rows in tin waiters, the teeth are now forwarded to the trimmers'-room, where the busy fingers of forty tidy and happy-looking young ladies smooth them into readiness for the enamelers'room. Here also is furnished employment for fair fingers. The enamels are laid on with a brush, and the work requires delicacy and care. Having received their coats of enamel, the teeth, descending again toward the ground floor, from which they started, halt in another room to receive the gum enamel, which, when the fire shall have passed its verdict upon them, will reflect the rosy cheeks of the artists who laid it. But, taking up the line of march, they are again halted that other light fingers, the owners of which are called finishing trimmers, may remove any surplus of enamel from the sides, make true with finepointed instruments the arch of the gum, and lay the teeth carefully on beds of quartz-sand in trays of fire-clay, ready for the fiery trial through which they are to pass, and without which they are unfit for life's work.

"Beyond this no tool can follow them. Imperfections heretofore could have been repaired, but in the future beyond the fire, the tooth is either perfect or a failure irremediable. The furnace is an institution entitled to respect for its intensity. In its centre is a muffle of fire-clay, entirely surrounded by the glowing fuel, a charge of half a ton's weight of coal, itself carefully bricked up before firing, that no impurities of dust or vapor shall reach the teeth. Take out the small half-oval door of the muffle, and you shall feel a heat the eye shrinks from registering, an incandescence that startles you by its fervor. In from fifteen to thirty minutes, depending upon the state of the fire, the teeth, glowing like the oven, are taken out finished. The dull enamel has become as glass. The lustreless oxides have yielded their color, and the tooth that went in friable and brittle has come out adamant. But there is here required a skill, the acquisition of which is one of the marvels of the mechanic arts. It is a trained judgment, a skill of eye and handling, that enables the burner to give success to the work of those who have gone before him, and at the precise point where a shade of failure is utter ruin. A little too long in that heat, and the teeth are ruined; while the evils of 'underdone' are to be guarded against equally with the housekeeper's baking.

"The teeth are now done and ready for the curious characteristic red-wax cards on which they go into the market. We have not time to describe the various minor processes of preparing colors, fluxes, oxides, etc., or to speak of the manufacture, carried on in one of the large rooms, of corundum wheels used by the mechanical dentist in grinding teeth to fit the plate; nor can we stop in the rooms devoted to the preparation of wax in various forms and combinations for dental purposes; nor in the packing-rooms—one of which is used for boxing chairs, spittoons, lathes, dental cases, and other bulky goods; the other to the bottling, boxing, and labeling of various chemical and medicinal preparations for the office and laboratory of the practitioner.

"In one of the rooms anvils were ringing, and files at work on some of the smaller steel implements of the dentist; a part of that branch of the business of the house, which gives exclusive employment to an extensive manufactory in another part of the city, whence iron and steel come forth in all the glittering multifarious forms that send a shudder through the observer of a dentist's well-filled case.

"There is one other little room which, as a journalist, we cannot afford to pass unnoticed—the sanctum from which issues The Dental Cosmos, a monthly. devoted to the interests of the profession. The Dental News Letter, a quarterly which preceded it, reached its twelfth volume, and was followed by the Cosmos, now in its eighth volume, the whole covering a period of twenty years. The title was advisedly selected to indicate the intention of the publisher: to cover the dentists' world of science and practice, and he has so far succeeded in his aim that the Dental Cosmos may, we think, by common consent, be set down as the most successful publication devoted to this specialty.

"Passing now from the manufacturing to the sales-rooms, we find a great variety and extent of stock of every conceivable article used by the dentist, from the smallest hand implement to the costliest plush-lined chair, with its

curious joints and luxurious appointments, associated, alas, with discomfort and suffering, but of that kind from which come health and restored beauty.

"The processes we have described in Mr. White's establishment, joined to the employment given in his sales-rooms, packing-rooms, and counting-rooms, furnish employment to nearly three hundred persons, with a pay roll of about four thousand dollars per week, and a product of four hundred thousand teeth per month.

"And so passed the morning at the Arch Street establishment."

TO THE DENTAL PROFESSION.



This Catalogue has been copyrighted; but no copyright, it would seem, is sufficient to prevent parties from making use of that which is original, peculiar, and proprietary, as will be manifest to any who are familiar with most of the catalogues which have appeared from these in the trade, in which our cuts, numbers, classifications, and descriptions have been copied without alteration (the exact language meeting their views so well that no change was deemed necessary); embracing lists of articles of our own manufacture, arbitrarily numbered for our own convenience, and having no significance outside of that fact, and which could not therefore be supplied by other parties except through us; a course which appears more complimentary to us than honorable in the parties so acting. We have therefore secured, by law, a Trade Mark, which, so far as practicable, will henceforth be stamped or otherwise placed upon every article manufactured by us.

THE Catalogue, which has been carefully prepared, is respectfully submitted to the profession, in the belief that its use will prove a great convenience to buyer and seller.

Our stock now on hand is larger, more varied and complete than ever before; and our aim has been so to arrange and classify it as to enable our customers to see in detail the varieties in quality and price of any article they may desire.

A full supply of all goods named herein will be kept constantly on hand, and all new and useful improvements that may be made added thereto; thus enabling the dentist to find at our establishments every requisite of each department of his art.

In the department of precious metals, special care will be given to make the goods conform in fineness to the standard claimed, and in this matter we invite

investigation and comparison, as all of our Gold Plate is made by the direct combination of pure metals, alloyed according to official standard; and not from the remelting of scraps and filings. Scraps and filings will be purchased at their full value, as nearly as can be determined. We are willing to pay all that we can get for them at the mint.

Special attention is solicited to our stock of imported goods.

In every department of the business, our determination is, so fully to meet the wants of the profession as to deserve success.

SAMUEL S. WHITE.

HINTS FOR ORDERING GOODS.

In ordering goods by Catalogue, please specify carefully the article desired, with price affixed, and as we have published several Catalogues, as well as a number of price lists, during the last six years, our customers will be careful to state that it is the Illustrated Catalogue of 1867 from which they make their selection.

Bring the various items of an order together at the beginning or close of a letter, and thus avoid the oversight which may occur when they are scattered through the body of the correspondence.

Do not depend on our remembrance of some previous order.

State how you wish your goods forwarded-by mail, express, or otherwise.

Write the name of your town, county, and State, and your own name distinctly.

Any article needed by the profession will be procured and furnished at advertised rates.

If an article not enumerated in the Catalogue is desired, be particular to give a full description, and, if possible, the price when there is choice of qualities or styles.

The Catalogue of any manufacturer or dealer in dental goods may be used in ordering from us, care being taken to designate, by date or otherwise, the edition of the Catalogue, or by sending it, to be returned with the goods.

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Goods ordered to be sent by express, bill payable on delivery, will be charged with expenses of collection. This charge insures the safe delivery of the goods to the purchaser, as well as the safe return of the money to us.

Note.—None but Express Companies collect bills on delivery of the goods.

Postal money orders, and checks, or drafts drawn to our order, at our risk. Registering letters is simply informing dishonest clerks that money is inclosed.

All goods are carefully packed, and can be transported safely, with careful handling, to any part of the country. They become the property of the purchaser when they leave the store; therefore for all delays or damages he must look to the transporters of the goods, who alone are legally responsible to the owner for their prompt and safe delivery.

Goods are not insured except by request, and then always at the expense of the purchaser.

Every article sold by us, not answering our description, or not according to order, will be taken back without loss to the purchaser.*

Should there be any misapprehension or overcharge on our part in putting up an order, it will afford us pleasure to correct it on receiving prompt notice of the same, as it is our desire to give entire satisfaction in every transaction.

Attention to the foregoing hints, will enable us to fill all orders, large or small, as satisfactorily to the purchaser as though he were present to make selections.

Residents of foreign countries will find it to their advantage to order direct.

NOTICE.

At each of the depots there is kept A BULLETIN BOARD, on which brief notices may be registered, free of charge, of Dentists desiring Assistants, Parties seeking Positions in the Office or Laboratory, Partnerships, or Practices for sale, or desired.

^{*}Note.—We are often at a loss to understand the meaning of dentists who write for one or more teeth to be selected by a sample sent, when the terms "to match" and "to correspond with" are used; as these expressions are intended sometimes to designate the mate and sometimes the duplicate of the pattern. The annoyance caused by delay, etc. can be avoided, if the purchaser will be particular to name the variety of tooth desired, whether Right or Left, Superior or Inferior, Central, Lateral, Canine, Bicuspid (1st or 2d), Molar, Single or Block, Gum or Plain, for Plate or Rubber Work.

DENTAL COSMOS;

A Monthly Record of Dental Science,

DEVOTED TO

THE INTERESTS OF THE PROFESSION.

TERMS OF SUBSCRIPTION.

One Copy, one year, in Advance - - - \$2 50 Single Copies - - - - - - - - 25

Specimen numbers sent on application. Subscriptions taken yearly or half yearly.

* The Volume commences in January.
The Half Volume commences in July.

The Dental Cosmos is now in its Eighth Volume, with a constantly increasing subscription list.

Contributions to its pages respectfully solicited.

Advertisements of matters strictly connected with the practice of Dentistry, received at the following rates:

½ page 1	Month,	\$15.00	2 Months,	\$20.00	3 Months,	\$25.00
1 11	11	10.00	44	14.00	"	18.00
1 11	66	5.00	"	9.00	"	12.00

In consequence of the demand for space, no advertisements received for more than a half page, nor for a longer period than three months, without a special agreement.

We can furnish volumes one, two, three, four, six, and seven of the Dental Cosmos, bound in a superior manner, in half Turkey Morocco, at \$3.50 per volume.

SAMUEL S. WHITE, Publisher.

^{*} The publication of the Cosmos was commenced in August, and the issue for July, 1867, will complete the Eighth Volume. In consequence of the difficulties arising from a misapprehension of this fact, and the numerous subscriptions received, which it is desired shall commence with the first of the year, we have concluded to publish one volume of five numbers, commencing with August and closing with December, 1867. The price of this volume will be \$1.00. The 1st of January, 1868, will therefore be the commencement of the Tenth Volume.

ARTIFICIAL TEETH.

To this, the largest and most important department of our business, we desire to call special attention and critical examination—by comparison with natural teeth, in reference to shape, color, texture, translucency, and vital appearance, and by contrast with teeth of other manufacturers in reference to strength, lightness, capability of resisting changes of temperature in soldering, and adaptability.

What is included in these terms is briefly as follows:

Shape. The preservation of the distinctive characteristics of the different teeth of the lower and upper jaws, and of the right and left sides of the mouth, in their relations to each other and to those with which they antagonize, and the resemblance which, when properly adjusted, they bear to the dental arch.

Color. The imitation in this respect of the colors of the natural teeth, as shown by placing them alongside of teeth in the mouth—the nice blending of the brown or yellow base or body of the tooth with the clearer enamel of the cutting edge.

Texture. The absence of the appearance of vitrifaction; the soft, waxy,

enamel-like, and natural surface which they present.

Translucency. The word expresses all that can be said in opposition to teeth that are opaque or clay-colored, which contrast so strongly with nature's work-

manship.

Vital Appearance. Made up by the combination of color, texture, translucency, absence of the appearance of vitrifaction, and the blending of the colors of the body and enamel in proper relations—especially manifest when exposed in the mouth to an artificial light.

Strength. As tested by riveting, and other processes of the workman, and by

their legitimate use by the wearer.

Lightness. In any test of strength, the weight must be taken into account, the object being to secure the greatest strength with the least weight and bulk.

Resistance to Variations of Temperature. As ascertained by the process of

soldering, in the manufacture of new dentures, or the repair of old ones.

Adaptability. In the ease with which they can be adapted to various conformations of the maxillary, with slight labor on the part of the artist in grinding and fitting.

In the combination of these essential characteristics, we claim a marked

superiority for our teeth.

Our facilities for supplying variety of shape, size, and shade in ARTIFICIAL TEETH are unequaled by any establishment in the world, whether reference is had to the number of hands employed, the number of teeth made, or the number of moulds in use.

Thirty-nine premiums for our manufactures have been received from various organizations in this country and abroad.

PORCELAIN TEETH.

Our stock of Teeth is larger, more varied, and complete than at any previous time, embracing a large variety of size, shade, and form of

TEETH ADAPTED FOR A VULCANIZABLE BASE,

IN THE FOLLOWING VARIETIES:

BLOCKS IN SECTIONS OF TWO OR THREE,

WITH A

PATENTED DOUBLE-HEADED PIN.

(Patent issued January 21, 1862; reissued April 29, 1862.)

SINGLE GUM TEETH.—SINGLE PLAIN TEETH.

Each class in sets of twenty-eight, fourteen, six, four, and two; and Molars and Bicuspids in sets of eight.

TEETH FOR MOUNTING UPON GOLD AND SILVER PLATE,

CONSISTING OF

PLAIN AND GUM TEETH,

In sets of twenty-eight, fourteen, six, four, and two; and Molars and Bicuspids in sets of eight.

Teeth made expressly for CONTINUOUS GUM WORK in sets as desired.

PIVOT TEETH.

New styles and forms are being constantly added to our stock.

A liberal discount from retail prices will be made to Wholesale Dealers.

Discount to Dentists according to quantity purchased; and special discount to Dealers.

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Samuel S. White's Gold Foil	
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All other Foils at manufacturers' prices.	
Put up in one-eighth ounce books or packages, and sold at the same rate as	bv
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Prices quoted each month in the DENTAL COSMOS.	
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Note.—S. S. White's Gold Foil is put up also in one-sixteenth ounce books, for convenience of dentists who may wish to test its quality.	тце
convenience of dentists who may wish to test its quarity.	
TIN FOIL.	
Samuel S. White's Chemically Pure Tin Foil per book \$0	50
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COMPOSITION FILLINGS.	
(When sent by mail, postage extra.)	
Hill's Stopping, in oz. and ½ oz. packages (postage 9 and 6 cents) per oz. 5	00
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GOLD PLATE, ETC.

Gold Plate, 18 carats fine						 per dwt.	\$0	90
" 20 carats fine				•		 66	1	00
" 22 carats fine						 4.4	1	10
" Pure (Ribbon)						 6.6	1	12
Gold Plate, 18 carats fine,	alloye	d with	Pla	tinum,		and Back-		
ings						 per dwt.		90
Gold Wire, Round and Half	Round	l, 18 c	arats	fine .		 44		90
Gold Spiral Springs, 18 cara	ts fine		•			 4.6	1	00
" " 10 cara	ts fine					 . 6		60
Gold Solder, 18 carats fine						 		90
" 14 carats fine						 		75
	SILV	FD	D.	1 A T	F			
	וחוכ	Y E N	F.	LAI	£.			
Silver Plate made from Coin						per dwt.		08
" Pure						 46		09

 "granulated, pure"
 "1 80

 Silver Springs
 "per dwt.
 15

 Silver Solder
 "08

46

per oz.

09

2 00

Silver Wire, Round and Half Round

Silver, precipitated, pure

Gold and Silver Plate, etc. will be sold at the above prices in gold, or with the current rate of premium on coin added.

FRENCH AND ENGLISH PLATINUM PLATE AND WIRE,

Our own Importation; Warranted Pure.

IMPORTED TO ORDER FOR ALL USES.

Platinum, of an inferior quality, may be sold at a less price; Platinum is sometimes sold by Avoirdupois weight (18 dwt. 6 grs.), instead of Troy weight (20 dwt.), making the price appear lower than it really is. Remelted platinum, if offered for sale, will be represented as such.

Platinum Plate and Wire		per oz. Troy \$6 00
" cut to pattern		" " 7 00
Platinum Pins for Blocks (all sizes) .		" " 7 00
Battery Platinum rolled and cut to pattern		" " 7 50

Platinum will be sold at the above rates, with the current rate of premium on gold coin added.

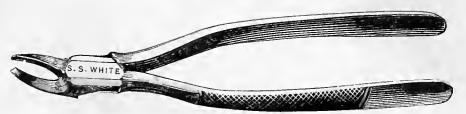
SAMUEL S. WHITE'S FORCEPS.

These Forceps, for quality and adaptation, are not excelled by those of any other manufacturer. A variety of shapes are here represented, from which the purchaser can select the instrument he may desire. In ordering, state the number of the cut. Our Forceps are warranted; and if they break, in the second or third application upon the proper tooth, will be exchanged without charge.

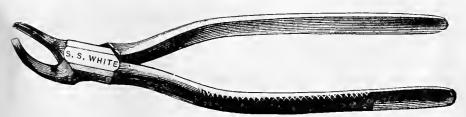
ROOT FORCEPS.



No. 1-Upper Front Root, straight.



No. 2-Upper and Lower Root, half curved.



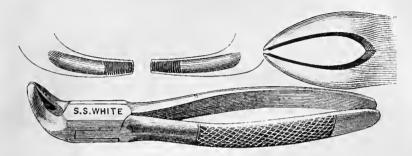
No. 3-Lower Root, full curved.



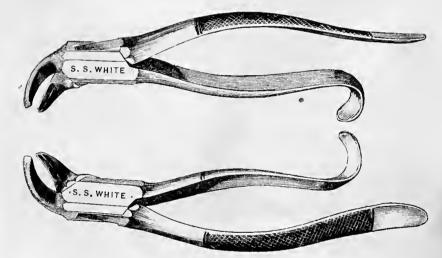
No. 35-Bayonet-shape Root.



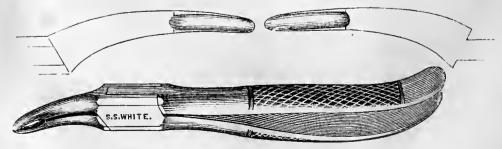
No. 7-Upper Back Root (universal).



No. 49-Lower Molar Root (with crowns).



No. 50-Lower Root, right and left.



No. 63-Universal Spicula.

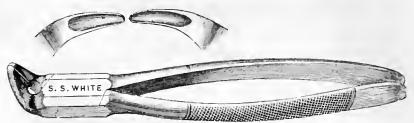
ALVEOLA FORCEPS.



No. 32-Parmly's Bayonet-shape, Alveola.



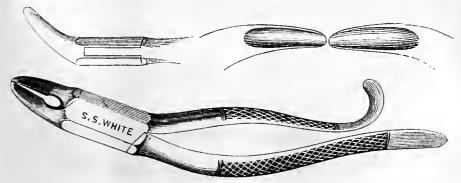
No. 33-Parmly's Straight Beak, Alveola.



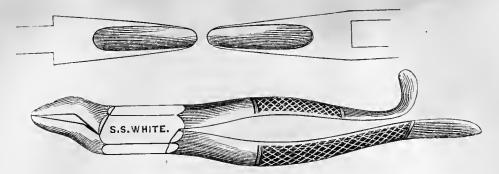
No. 34-Parmly's Curved Beak, Alveola.



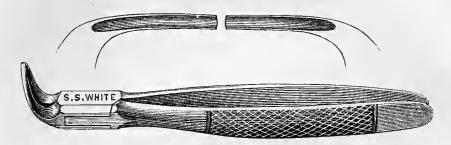
No. 39-Parmly's Half Curved, Alveola.



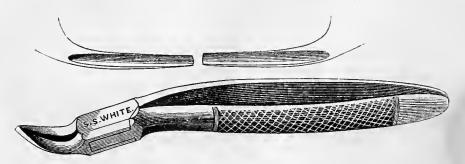
No. 52-Parmly's Lower, for either side, Alveola.



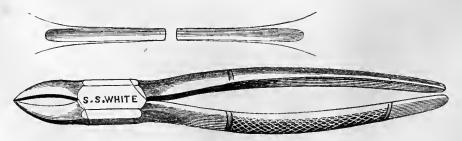
No. 58-Upper Incisor and Cuspids, Alveola.



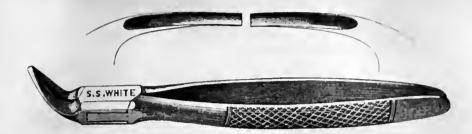
No. 41-Half Curved, Long Beak, Alveola.



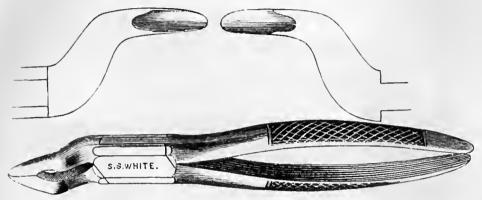
No. 42-Upper Back, Long Beak, Alveola.



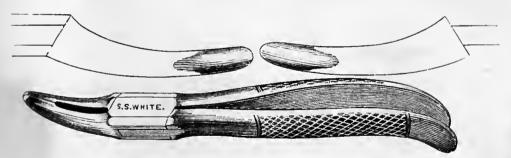
No. 43-Straight Long Beak, Alveola.



No. 44-Full Curved, Long Beak, Alveola.



No. 61—Alveola Nipping, back, for cutting away process after extraction.



No. 64—Alveola Nipping, front, for cutting away process after extraction.

FORCEPS FOR CROWDED TEETH.



No. 36-Half Curved, Narrow Beak for crowded Teeth.

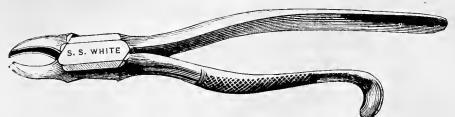


No. 37-Full Curved, Narrow Beak for crowded Teeth.

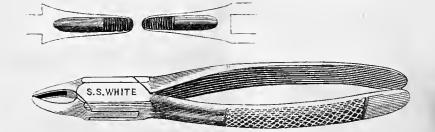


No. 38-Straight, Narrow Beak for crowded Teeth.

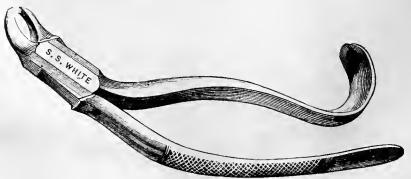
INCISOR FORCEPS.



No. 13-Upper Incisor.



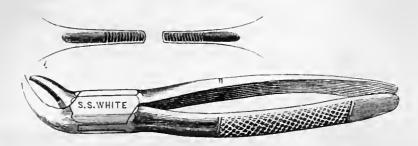
No. 48-Upper Lateral Incisor.



No. 9-Lower Incisor, Hawk Bill.



No. 14-Lower Incisor and Bicuspid, for either side.



No. 46-Hawk Bill, Lower Incisor and crowded Teeth.

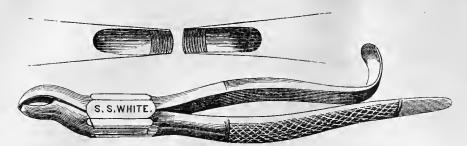
BICUSPID FORCEPS.



No. 4-Upper and Lower Bicuspid, half curved.



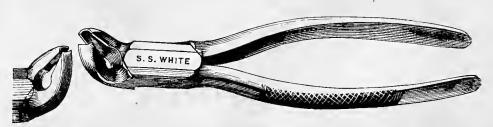
No. 11--Upper Bicuspid and Canine.



No. 40-Upper Bicuspid and Incisor.



No. 21—Lower Bicuspid and Canine.

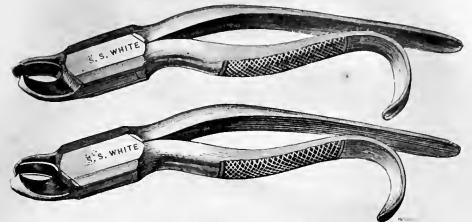


No. 25-Lower Bicuspid, Safety.

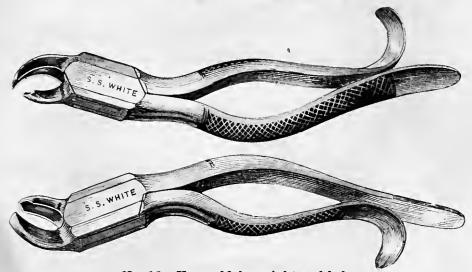


No. 26-Upper Bicuspid, Safety

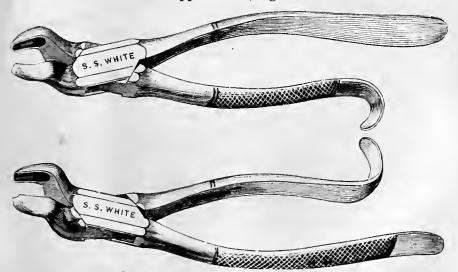
MOLAR FORCEPS.



No. 18-Upper Molar, right and left (Harris').



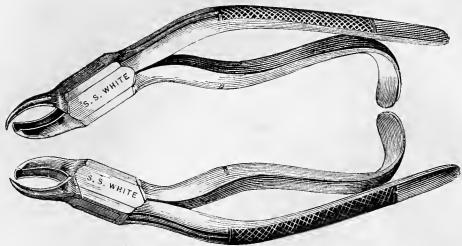
No. 19-Upper Molar, right and left.



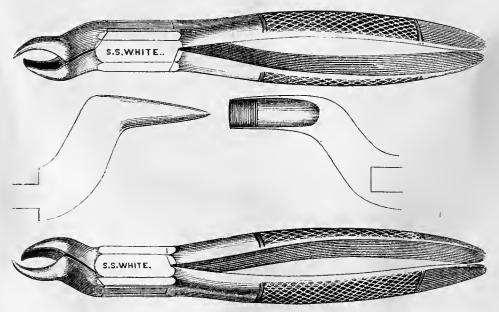
No. 53-Upper Molar, right and left.



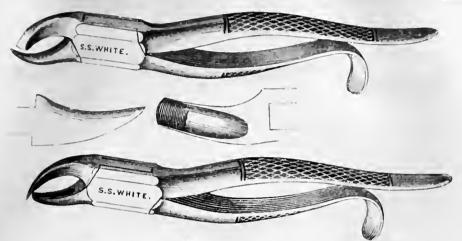
No. 24-Upper Molar, for either side.



No. 20—Upper Molar, right and left, cow horn, which, with No. 16, makes an invaluable set for the extraction of Molar Roots when the crowns are decayed below the process.



No. 57-Upper Molar, right and left, cow horn, with or without hook on handle.



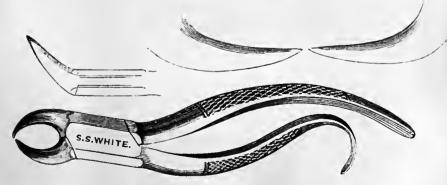
No. 59-Upper Molar, right and left, cow horn.



No. 45-Upper Molar, cow horn, either side.



No. 55-Lower Molar, cow horn, right side.



No. 56—Lower Molar, cow horn, for the left side. This Forcep, with the No. 55 for the right side, makes a very efficient set for Lower Molars.



No. 16-Lower Molar, cow horn, either side.



No. 23-Lower Molar, cow horn, either side.



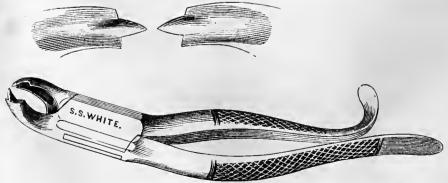
No. 15-Lower Molar, either side (Harris').



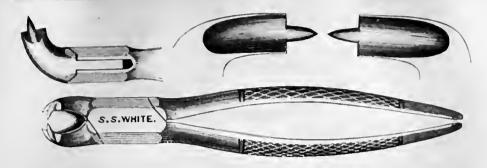
No. 17-Lower Molar, either side.



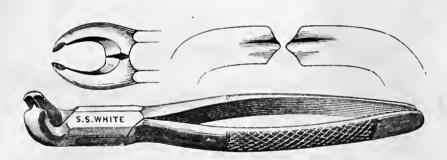
No. 27-Lower Molar, plain beak, for either side.



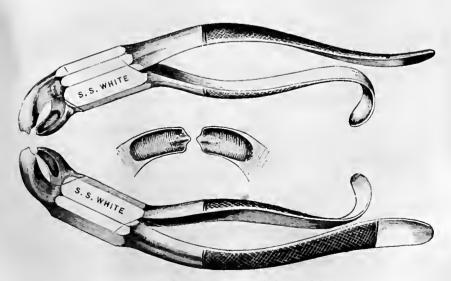
No. 60-Lower Molar, either side (Wolverton's).



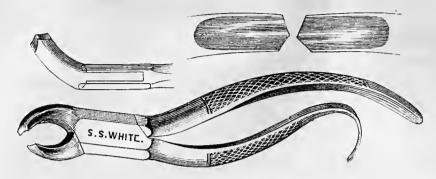
No. 51-Lower Molar, either side (Wolverton's).



No. 47-Lower Molar (Hutchinson's).



No. 28-Lower Molar, right and left.

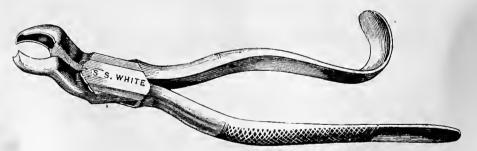


No. 54—Lower Molar, for the left side. This Forcep, with a No. 28 for the right side, makes a very efficient set for Lower Molars.

DENTES SAPIENTIÆ FORCEPS.



No. 8-Upper Dentes Sapientiæ, for either side.



No. 10-Upper Dentes Sapientiæ, for either side, with or without hook.



No. 5-Physick's Dentes Sapientiæ, either side.



No. 22-Lower Dentes Sapientiæ, either side.

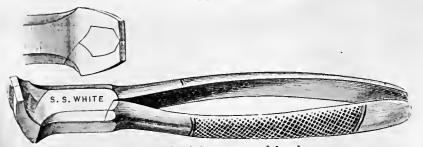
SEPARATING AND EXCISING FORCEPS.



No. 6-Separating.



No. 12-Upper Excising.



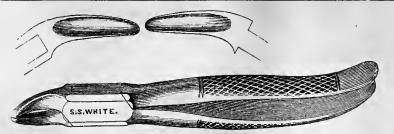
No. 31-Excising, curved beaks.

CHILDREN'S FORCEPS.



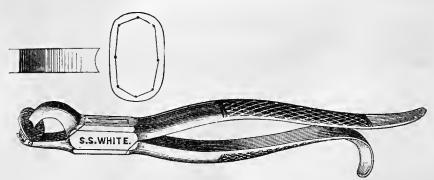


Nos. 29 and 30—Curved and Straight, for Children's Teeth.

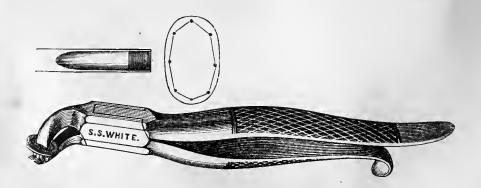


No. 62-Child's, and Universal Root.

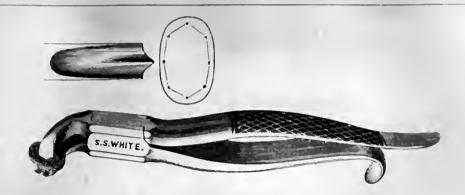
FULCRUM FORCEPS.



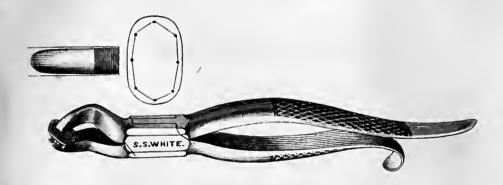
No. 1-Upper Incisors, Cuspids and Bicuspids, for either side of the Mouth.



No. 2—Lower Incisors, Cuspids and Bicuspids. Two pair, one for the right, and one for the left side of the Mouth.



No. 3-Lower Molar. Two pair, one for the right, and one for the left side of the Mouth.

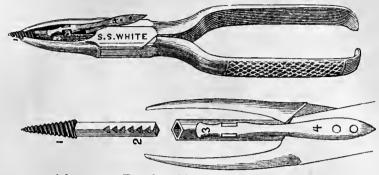


No. 4—Upper Molar. Two pair, one for the right, and one for the left side of the Mouth.

Seven pair of Fulcrum Forceps constitute a set. The Plate, which is the size shown in the cut, is attached to the lower beak by a hinge, and is covered by an India-rubber pad or cushion, about one-eighth of an inch thick, secured by fine wire. In extracting with Nos. 1, 2, and 3, the pad is placed on the inner gum, with No. 4 on the outer gum.

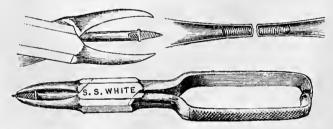
Per set							\$30 00
" pair							4 50

DUBS' SCREW FORCEPS.



- 1. Conical Screw with square Ratchet Shaft.
- 2. Beaks of Forceps, grooved inside.
- 3. Socket with square hole to receive Shaft.
- 4. Spring Trigger by which the Screw can be detached at pleasure, at any given point per pair \$5 50

HULLIHEN'S SCREW FORCEPS.



Hullihen's	Screw	Forceps,	Octagon	Joint	;			per pair	3	75
4.4	4.6	4.6	Oval	+ 6				4.6	3	25

MISCELLANEOUS FORCEPS.

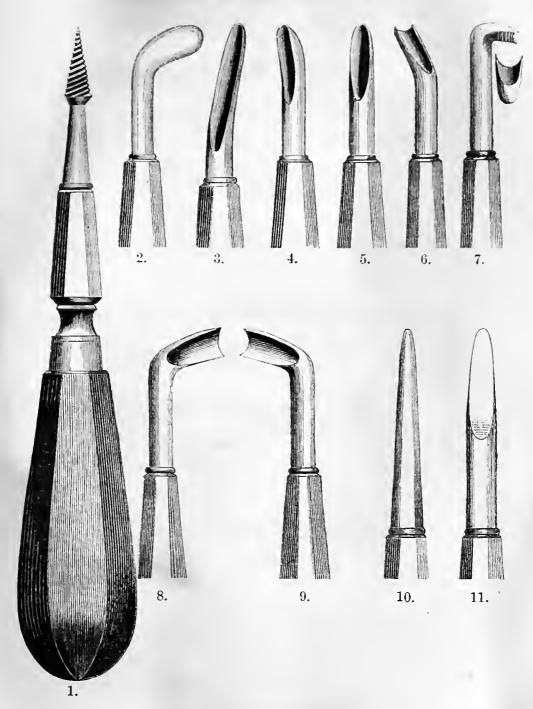
Children's Octagon Joints (cuts 29 and 30)	•	•	•	per pair	2 00
" Oval " " " " "				6.6	1 75
Physicians' Forceps (see Dental Cases.)					
Plating Forceps with Silver to order .				6.6	1 25
Garnet Settings put in Forceps to order .				 • •	1 00

TURNKEYS.

Various Patterns.

Ebony	Handle	e					each		2 00)
Ivory	6.6						+ 6	+	3 00)

STUMP EXTRACTORS.



Screws, Punches, Hooks, and Elevators:

Instruments, round, with large round Ebony Handles . . each \$0 63
" octagon, " octagon Ebony Handles, as per cuts " 1 25

Instruments,	octagon,	with large	round	Ivory	Handles		e	ach	\$2	00
4.	66	4.6	octago	n "				٤.	2	25
4.	+ 6	6.6	66	Cameo	Handles,	Gold	Ferrules		4	00
٠.			6.	Pearl	66	• 6	••		6	00
Other sty	les made	to order.								

PLUGGING FORCEPS.

Many Forceps have been sold, purporting to be made according to Dr. J. D. White's patterns, which have not been correct in shape; some of them so badly constructed as to be entirely useless.

The set consists of seven Forceps each 2~00

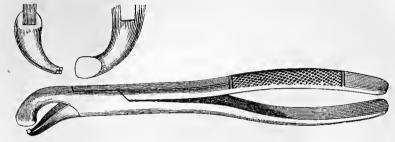


Fig. 1—Represents one of a pair, right and left. This instrument is six inches long; the handles are compressed three inches from the beaks, so that they will not be cumbersome in the mouth; one beak is flat, with a copper nail riveted into it; the other beak is smaller, and slightly curved, terminating like an ordinary condensing plugger with a serrated point. These Forceps are for plugging the buccal cavities of the inferior molars, and, in some cases, the superior molars.

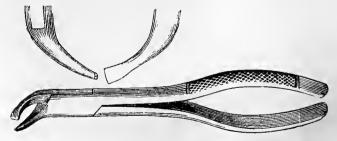


Fig. 2—Represents one of a pair, right and left, five and a half inches long, not quite so heavy in structure as Fig. 1. The beaks are flatter. They can be used for the places referred to above, but are principally used for the anterior and posterior surfaces of the inferior molars and bicuspids.



Fig. 3—Is a Forcep five and a half inches long, one flat and one pointed Beak. It is used principally for the upper teeth, front or back parts of molars, bicuspids, and canines. The condensing Beak is a little longer than the counter Beak, and slightly serrated on the point.



Fig. 4—Is a Forcep six and a half inches long, the Handles well compressed, four inches from the Beaks, so as not to be in the way of the chin when using it. It is used on all the front teeth, canines, bicuspids, and molars, as far back as it can be applied; the condensing Beak is serrated, and as small as an ordinary plugger for soft foil; the counter Beak is flat, with a copper nail riveted in.



Fig. 5—Is a straight Forcep, five and a half inches long, with the packing Beak a very little shorter than the counter Beak. It is used principally for the superior bicuspids and canines when the plug extends close up to the cusps.

Plugging Forceps, Dr. Flagg's Patterns.

The set consists of three Forceps each \$2 00



Fig. 1—Is a straight Forcep used for condensing plugs between teeth, upon the mesial or lateral faces above or below, the plugs being located near the cutting edges of the incisors, the cusps of the cuspids or bicuspids, and the buccal edges of the approximating faces of the molars.

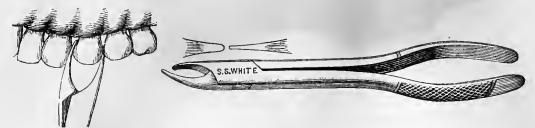


Fig. 2—Is used for condensing such plugs or parts of plugs as are located between incisors, cuspids, and bicuspids of the upper jaw near their necks, and the lingual or palatine edges of the approximal plugs as they may pertain to superior or inferior teeth.



Fig. 3—Is intended for condensing plugs upon the labial, palatine, and lingual faces of incisors and cuspids above and below, also upon the buccal, palatine, and lingual faces of bicuspids and molars above and below, right and left sides.

These Forceps combine ease of adaptation, lightness, delicacy of form, and strength sufficient to compact a plug.

LANCETS.

Fixed Blades.

Ivory 1	Handle						•		•	•				\$0	75
Ebony	4.6														50
Steel	٤ ٤	File-c	ut .					٠.,							50
6	66	Absce	ss (s	ee p	age	90)						per	pair		75
Pearl		Star I	Patte	rn,	two	Rosett	es							4	00
Łc	. 6	Shell	Patte	ern,	sing	le Ros	sette							3	50
• •	. 4	Dolph	ain P	atte	rn,	"								3	35
4.6	4.4		66		w	ithout	Ros	ette						3	20
••	- 4 6	Plain	, Sil	ver l	Ferr	ule	٠							2	00
	b 6	Fish :	Patte	ern										3	20
							_								
				PC) C J	KET	L	AN	CEI	S.					
Shell	Handle,	one B	lade,	wit	hout	Sprin	g								63
66	"	66	"	wit	h Sp	oring								1	25
	• •	66	6.6	wit	h St	op								1	25
6.6		two	6 6	wit	h Sı	oring								2	00
• 6		three	6.6	6	4	66								3	00
		two	. 6	on	e in	each l	and,	with	Stop					2	50
		6.6	6.6	Cu	rved	Bisto	ury a	and T	enotor	me K	nife			3	50

INSTRUMENTS.

In the manufacture of Dental Instruments, our facilities are not surpassed by any establishment in the country. We import the best quality of Steel in large quantities, made to order in special shapes and sizes, expressly for our use; procure Ivory, Ebony, Pearl, Cameo, and faney Woods direct from first hands; have secured skilled workmen in each department connected with their manufacture; provided machinery peculiarly adapted to the work, and are thus enabled to furnish the finest quality of Instruments at moderate prices. Being made under our own supervision, we guarantee their quality, and invite comparison with those of other manufacturers. Special attention given to repairing, repointing, and retempering Instruments. Where the Steel is of good quality, they can be repaired so as to be equal to new.

PLUGGING INSTRUMENTS.

Steel	Handles,	Octagon,	plain							per doz.	\$3	00
4.4	4.4	4.6	taper							4.6	4	00
1.6		. 6	" Fi	le-cut				•			5	00
6.4		6.4	File-cut,	1 ineh	(Kerr	n's)				4.6	5	00
	• •	6 1		1 "	best	qual	ity	٠.			6	00
	- 4	4.6		3 4.						6.6	7	50
+ 6	. 4		Dr. Atk	inson's (Malle	et)				4 -	4	00
	••	. 6	Dr. Abb	ott's (M	allet)	, poli	shed	ends		6.6	5	00
* *	• •		Dr. Darl	by's, Fil	e-cut,	1 in	eh, ir	Sets		4.	6	00
4.6		4.4	Dr. Lam	m's, for	Fibr	ous (fold,	} inch	1,			
			Fi	le-cut						4.6	6	00
6.6	. 6	6.6	Dr. For	bes' Rig	tht ar	nd Le	eft P	lugger	'S			
			for	Mallet	(Sets	of 6)			4.6	4	00
* Ivo	ry Handle	es, Octago	n, taper,	å inch, €	Germa	ın Sil	ver I	errule	es	6.6	12	00
* "	44	"	"	1 "	"		66	"		4.4	15	00
*	6.6		• 6	5 11	4.6		66	6.6		4.	18	00
		er Ferrule prices.		0				0 per	dozer	n, to the		

^{*}The figures adopted by manufacturers do not generally express the real size of the Handle. In most cases they are at least \(\frac{1}{8} \) inch less than described. The sizes enumerated for Ivory Handles, are warranted to be correct, which should be remembered when comparing prices.

Bleach	ed Bone I	Handles,	Fluted,	5 inch				per doz.	\$10	00
4.6	66	4.6	٠٠,	$\frac{1}{2}$ "					7	50
Ebony	Handles,	$\frac{3}{8}$ inch						6.	7	50
4.6	66	5 44						. 6	10	00
Pearl	4.6							66	60	00
4.6	4.4	1/2 "	"	4.4	44			4.6	45	00
Cameo	6.	5 4.	44		66				35	00
66	"	1 "	44	66	٠.			4.6	30	00
		4								

Note.—Solid Gold Ferrules, 16 carats fine, add \$8.00 per dozen to the prices of Pearl and Cameo Handles.

SET OF PLUGGERS.

These are \(\frac{1}{4}\) inch File-cut Handles, turned Shanks and Ball ends. (See Cut on Page 56.) Sixty Points are given. They can be adapted to any style of Handles.

24.

23.

25. 26.

27.

28.

29.

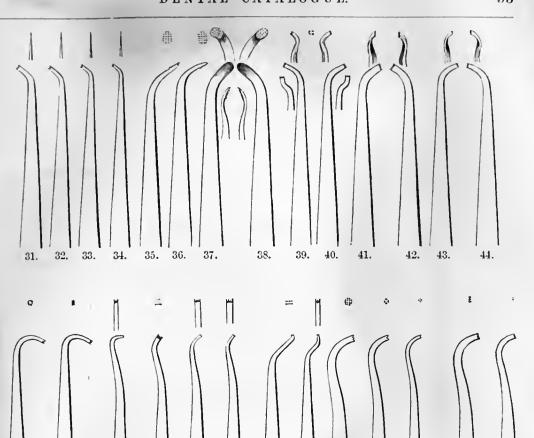
30.

20.

17. 18. 19.

21.

22.



MALLET PLUGGERS.

53.

54.

55.

56.

57.

58.

59.

2 00

60.

52.

Made from Patterns furnished us by Dr. Frank Abbott, N. Y.

The Instruments have been tested and approved by him. The Handles are Plain Octagon, with the Mallet end tapered and polished one and a half inches. Made of best quality Steel, the Points well tempered and nicely finished.

50.

51.

48.

45.

46. 47.

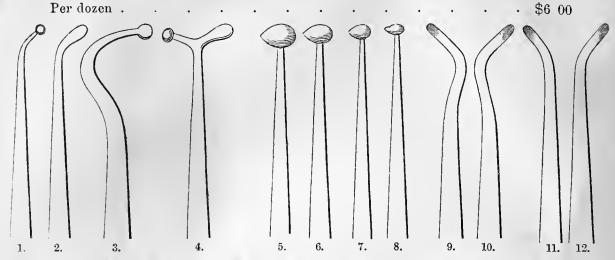
Per set of 30 Points			•		•	\$12 50
Inclosed in a Morocco Case					•	13 50

DR. ISAIAH FORBES' RIGHT AND LEFT (MALLET) PLUGGERS.

Plain Octagon three-sixteenth inch Handles.	Three pair or six Points in	
a set.		
Per set		

SET OF BURNISHERS.

These are ½ inch File-cut Handles, turned Shanks, Ball ends—12 forms are given. Can be made with any other style of Handle desired.



PLAIN OCTAGON HANDLE (MALLET) PLUGGERS AND BURNISHERS.

Dr. Wm. H. Atkinson's Points.

The set heretofore offered to the Profession contained 24 Points. Dr. Atkinson has added 36 new forms, including a full set of Burnishers, which increase the set to 60 Instruments.

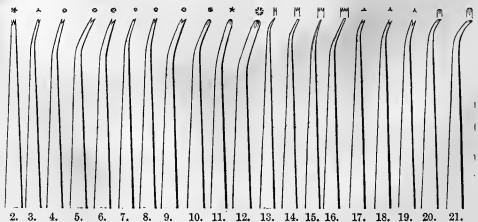
A set of 24, selected from the full set, comprising the most marked varieties, has been made for the convenience of those wishing to test these Instruments.

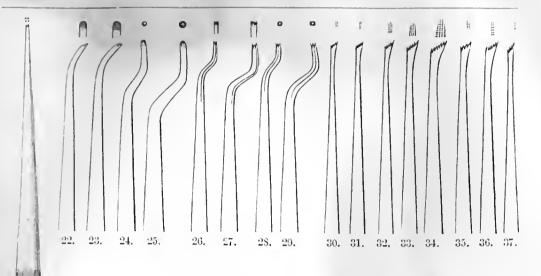
The Serrations are well defined and Points nicely finished.

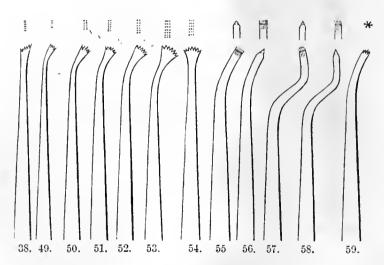
Per se	t of	60	. ~						\$20	00
66	46	24							8	00

These Instruments are designed to be used with the Mallet, and are adapted for that purpose, and approved by the Inventor.

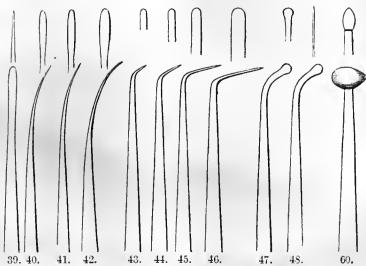
There are many Instruments sold, bearing Dr. Atkinson's name, which are not correct copies of his Points, and not adapted to the style of work for which they are intended.







Dr. Wm. H. Atkinson's Set of Burnishers.

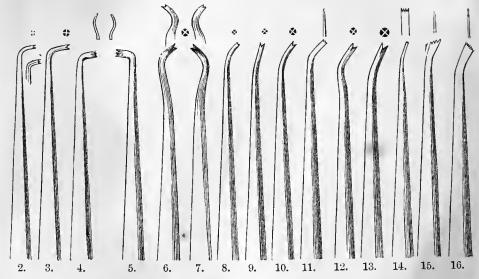


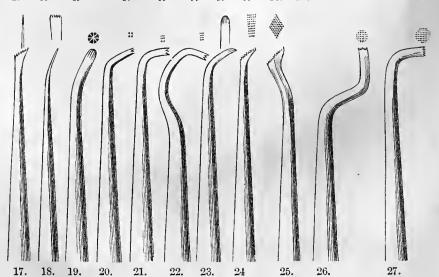
DR. E. T. DARBY'S PLUGGERS.

Dr. E. T. Darby, Demonstrator of the Pennsylvania Dental College, has presented us with a complete set of Points for Pluggers, Burnishers, and Chisels. The set of Pluggers, which are designed principally for hand-pressure, comprises 27 Points; set of Burnishers, 6 Points; set of Enamel Chisels, 12 Points.

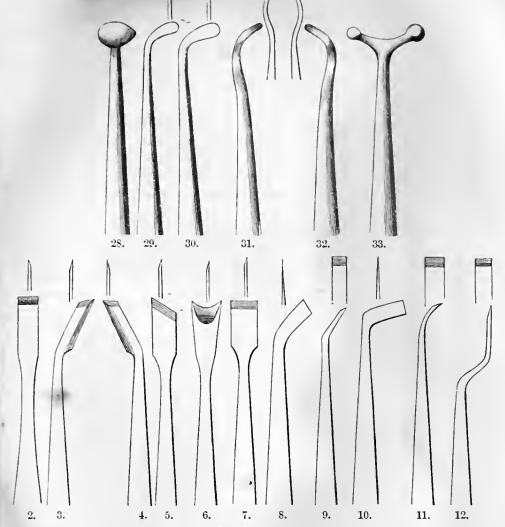
These Instruments are of the finest quality, with File-cut Handles, turned Shanks and Ball ends. Each Instrument is numbered and can be duplicated by giving the number.

Set of Pluggers and Burnishers (33 Instruments)		\$16 50
The same inclosed in a Morocco Case		17 50
Set of 12 Chisels		6 00
The same inclosed in a Morocco Case		6 60



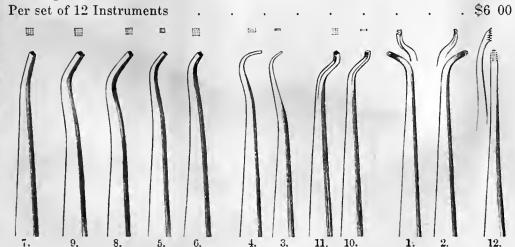


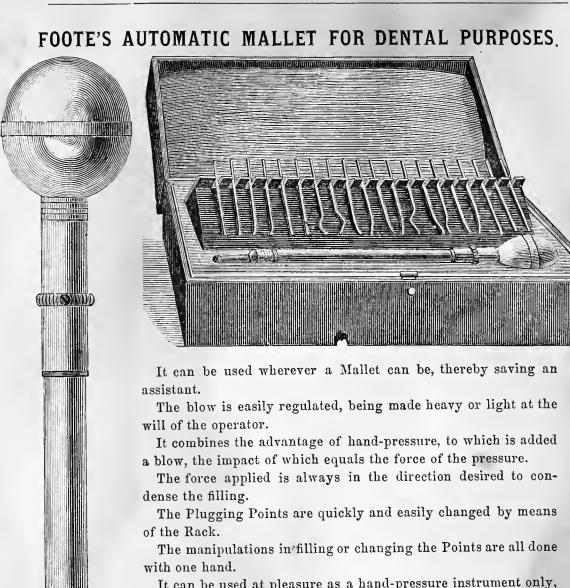
DR. E. T. DARBY'S BURNISHERS AND CHISELS.



DR. E. LAMM'S PLUGGERS.

These Pluggers are designed for Lamm's Fibrous Gold. The Handles are \(\frac{1}{4} \) inch, File-cut, with Ball ends and turned Shanks—intended for hand-pressure.





It can be used at pleasure as a hand-pressure instrument only, by resting the middle or index finger against the Tool-holder.

The machinery is simple, not liable to get out of order, inclosed within a case, and out of the way.

The Tool-holder is very small, receiving and communicating the force of the blow directly to the filling, without diffusing a large per cent. through a superabundance of metal.

The Tool-holder travels only an eighth of an inch to accumulate the force of the blow, thereby avoiding all unpleasant friction against the sides of the mouth, or unpleasant grating sounds against the tooth.

It materially lessens the labor and fatigue in filling teeth.

The sensation to the patient is more agreeable than either handpressure or malleting alone.

The value of the Rack consists in the facility with which, by its use, the operator can change the Points with one hand.

It is put up in a neat Morocco Case, lined with silk plush, containing a Rack and 20 Points, of various forms, to meet nearly all the changes required in plugging teeth.

TESTIMONIALS.

New York, March, 1866.

DR. G. F. FOOTE.—Dear Sir: We have been using your Automatic Plugger, and find it a great auxiliary to the Dental Cabinet.

The facilities for regulating the force of the blow and for changing the Points, the easy manipulations, and its effectiveness in use, together with the simplicity of its construction, particularly commend it to the intelligent Dentist who seeks the highest excellence both in the means and ends of our profession.

FRANK ABBOTT, DENTIST, 103 W. 11th St., N. Y. WM. H. & A. W. ALLEN, 18 W. 11th St., N. Y. JOHN ALLEN, 22 Bond St., N. Y. C. P. FITCH, 113 9th St., N. Y. T. G. WAITE, 263 4th Avenue, N. Y. G. WALDO HILL, 119 E. 10th St., N. Y.

W. B. ROBERTS, 47 Bond St., N. Y.

New York, April 3d, 1866.

Dr. G. F. Foote.—Dear Sir: From what I have seen and heard from those who are fully competent to judge and have practically tested your Automatic Plugger, I am convinced that it is a step in the right direction, and a valuable help to him whose ambition is to insert only first-class fillings.

Truly,

W. H. ATKINSON, 109 Ninth St.

G. F. FOOTE, M.D.—Dear Sir: I find your Automatic Instrument a very valuable auxiliary to my practice.

In many cases it enables me to produce with ease and facility that high degree of solidity and finish in gold stopping so desirable in our art.

WILLIAM H. DWINELLE, M.D., 119 Tenth St.

Automatic Mallet of German Silver, with 1 Point			•	\$10 00
Rack and Case				4 50
Twenty Points				5 50
Mallet, Rack, and Case, with 20 Points		•		20 00
Mallet, Electro-gilded, additional				4 00
Points made to order, adapted to the Automatic Mallet and I	Rack,	per d	oz.	3 50

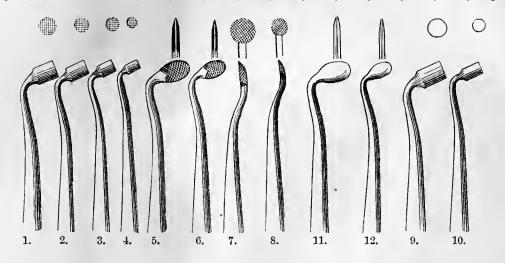
PLUGGING MALLETS.

A Large Supply of this Popular Instrument, in a variety of Forms.

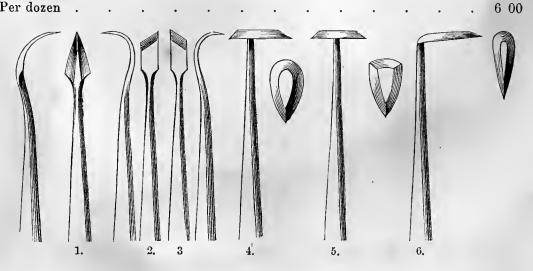
Lignum Vitæ or Iron-wood Head, with Rosewood Har	lle. Head 1½ inches
long by 1 inch in diameter	each 25
Vulcanized Rubber Head, with Ebony Handle. Hea	l 1½ inches long by
1 inch in diameter	each 75

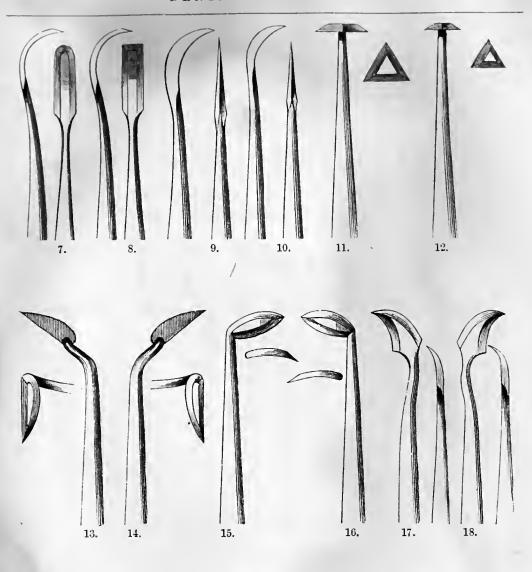
Vulcanized Rubber Head, with Snake-wood Handle. Head 13 inches long	
by $1\frac{1}{4}$ inches in diameter. A beautiful article each \$\frac{4}{3}\$	1 00
Dr. Colburn's Spring Attachment, one end of the Head plain, the other	
filled with Soft Rubber to modify the blow. Solid California Rosewood	
Head and Handle each	1 25

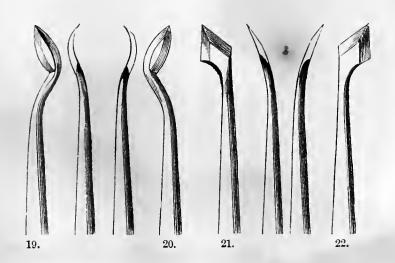
AMALGAM PLUGGERS AND BURNISHERS.

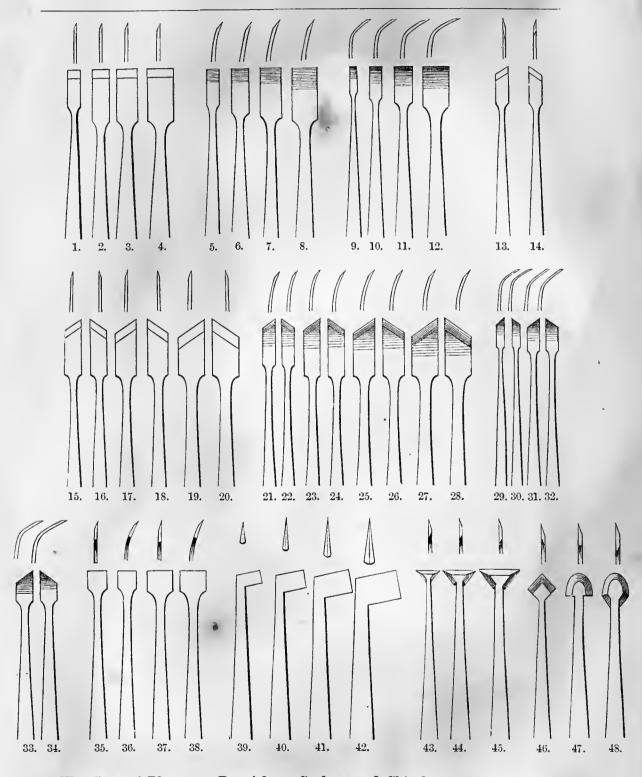


SCALERS AND CHISELS.









The Cuts of Pluggers, Burnishers, Scalers, and Chisels, represent the various and most approved forms in use. In making out an order, give the number of the Cut and the Page, to insure obtaining what is wanted.

SMALL SCALERS.

Ivory Handles, 8 forms		. each	\$0.85
Ebony " as per Cut, 8 forms		. "	50
The same, with Plain Octagon Steel II	andles		25

DR. D. H. GOODWILLIE'S

Set of Chisels and Excavators.

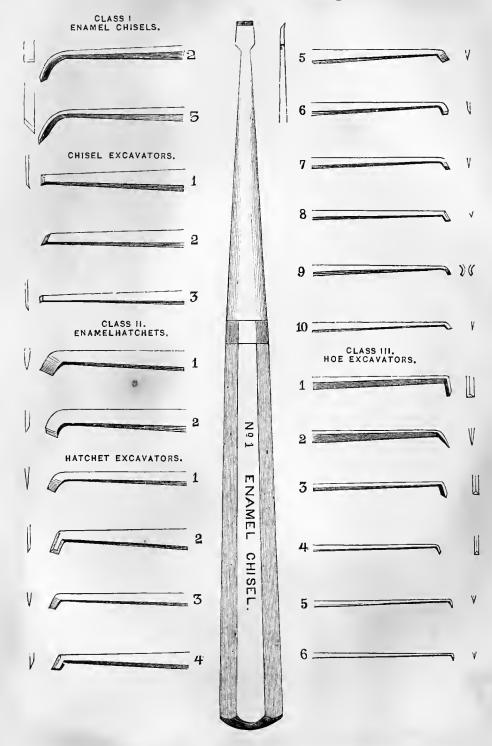
(See page 64.)

Complete set of Chisels and Excavators, 32 Instruments (7 large	
and 25 small), Ivory Handles	\$32 00.
Same as above, with File-cut Steel Handles	17 00
Note.—These Instruments are beautiful in appearance, and of	
the very best quality.	
Also, similarly arranged for traveling Dentists—	
25 Bits, best Steel, Ivory Socket Handle	4 50
Same, with Steel Socket Handle	4 00
STEEL EXCAVATOR SOCKET.	

IVORY EXCAVATOR SOCKET.

SET OF CHISELS AND EXCAVATORS.

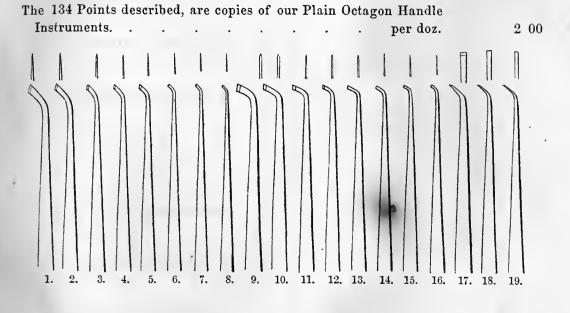
Dr. D. H. Goodwillie's Arrangement.

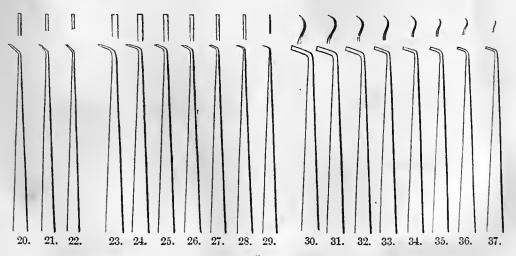


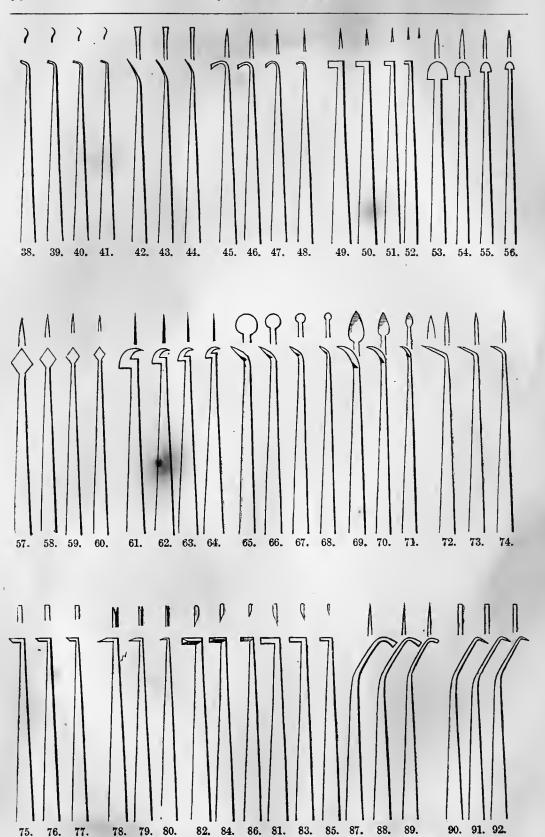
EXCAVATORS, BURS, AND DRILLS.

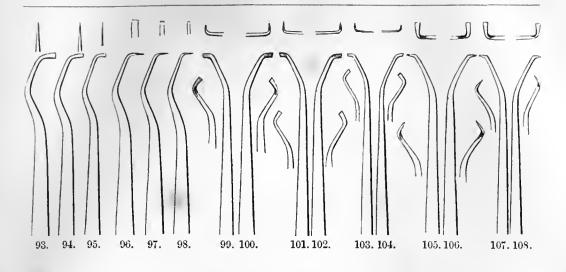
Plain Round	Steel	Handl	es				per doz.	\$	1 25
" Octago	n Stee	el Han	dles				4.6		2 00
Octagon Steel	Han	dles, I	File-cu	ıt.			4.6		$3 \ 25$
Ivory Handle	s .							8 00 to 1	2 00
Pearl · "							+ 4	18 00 to 2	5 00
Cameo · ·							• •	18 00 to 2	5 00

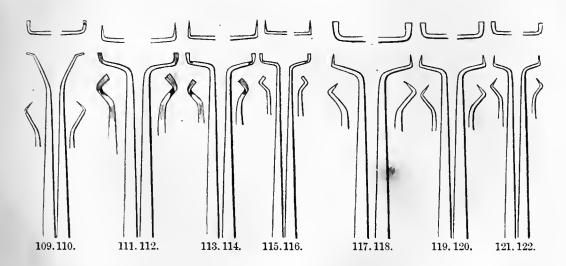
EXCAVATORS.

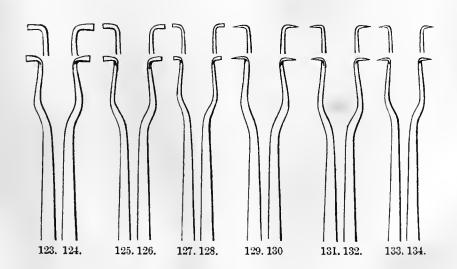




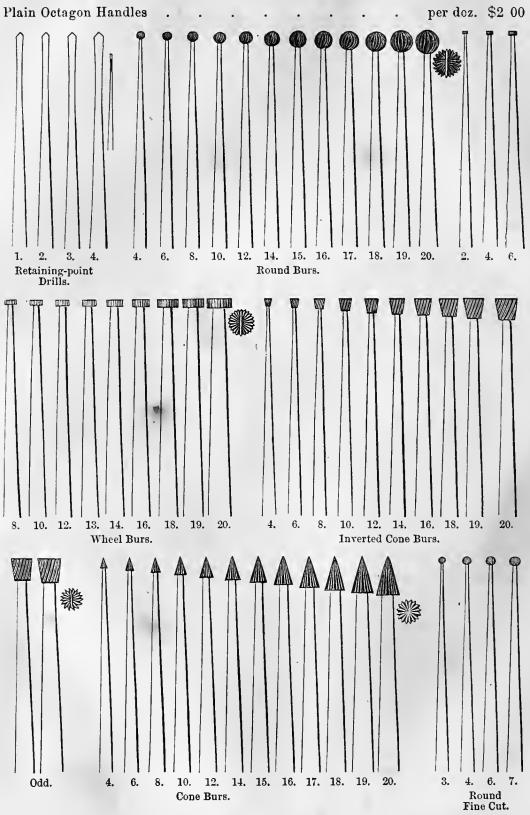


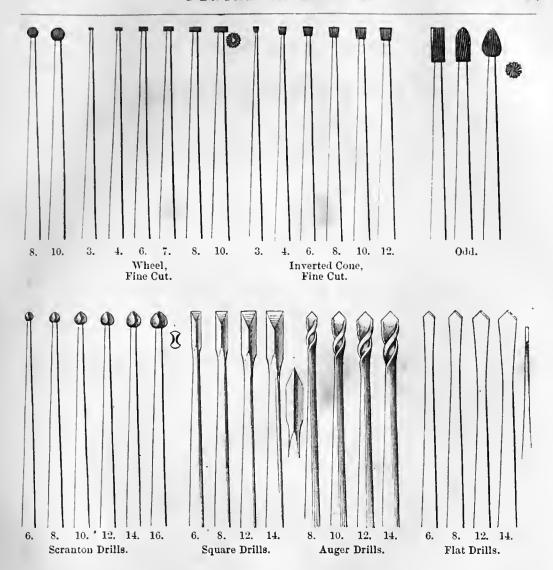






BURS AND DRILLS.





The Cuts of Excavators, Burs, and Drills represent the various and most approved forms of Points in use. In some of the Cuts of Burs, etc., we have not given all the sizes; the smaller ones being difficult to represent on paper, and the differences in grades being so slight that it was not thought necessary to illustrate each size. Enough, however, are given to enable the purchaser to judge of the intermediate sizes. In making out an order, give the number of the Cut and the Page, to insure obtaining what is wanted.



BUR GAUGE.

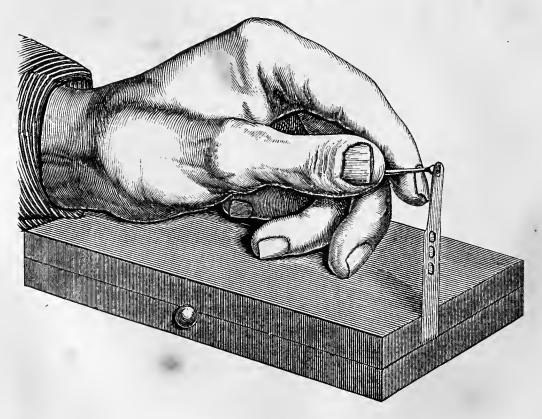


A Dentist having one of these Gauges, can order Burs and Drills of any required size by number.

German Silver							\$0	50
Steel							1	25

GATES' NERVE AND BUR DRILL.

(PATENTED OCTOBER, 1866.)

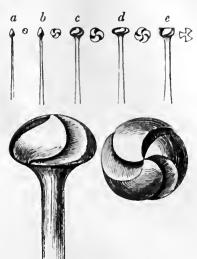


The Cut represents the position for sharpening, the hand resting upon a Case especially designed to contain an entire Set of these Instruments, with the Rack and Knife-edge Slip for sharpening.

The invention of this Drill marks a new era in fang filling, while it also furnishes an improved Bur. Its superiority will be evident to every observer. It

combines the essential properties of a Pulp-canal Reamer, Drill, Bur, and Compound

Excavator. It clears itself in operating, cuts instead of scraping, and can be sharpened with a stone until consumed. When used in the flat pulp canals, its round form shields it from breaking, its Guidepoint confines it to the canal in ordinary deviations from a straight course, and (of paramount importance), by its perfect manner of clearing itself, it avoids the pneumatic effect of other forms for cleansing, which, piston-like, injure by exhaustion or by forcing the deteriorated fluids and air through the foramen, thereby creating or aggravating disease in the periosteum. By enlarging the canal it also prevents like effects from the subsequent process of filling. Differing essentially from any in use, this Bur Drill is as efficient in starting and penetrating through solid material as when employed to enlarge



through solid material as when employed to enlarge cavities.

The Set consists of five varieties, of	Set consists of fiv	e varieties, o	f which
--	---------------------	----------------	---------

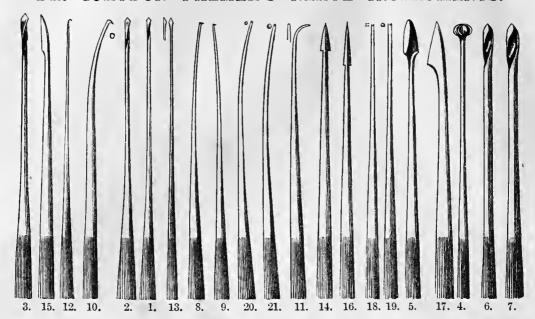
"a"	represents	the	Pulp-ca	anal l	Reame	r, with	fle	xible	stem,	3 s	sizes.		
"b"	"	6.6	4.6			66	in	flexib	le "	3	••		
"c"	6.	6.6	Round	Bur	Drill					12	• •		
"d"	66	6.6	Excava	ator '	6	. %				12	• •		
"e"	6.6	4.	Under	utting	g Bur	Drill				12	6 +		
Nerve Ins	struments a	, b								per	doz.	\$3	00
Bur Drill	s c, d, e	•					٠			4	4	2	50
Case of T	urkey More	occo										4	00

NERVE CAVITY INSTRUMENTS.

For Extracting Nerves, Excavating and Filling Nerve Cavities.

Dr. Paln	ner's Instrumen	ts in Set o	of 15					per set	\$4	00
. 6	4.6	66	15 ir	n More	cco Cas	е.		66	4	60
4.6	6.	• 6	21					• •	5	50
• 6	4.6	••	21 ir	n More	cco Cas	е.		**	6	50
Dr. Hun	ter's Nerve Can	al Plugge	rs in S	et of 1	2 .			**	3	00
Dr. Arr	ington's Nerve	Extractor	s and	Fang	Fillers,	drav	vn at	nd spring		
	temper, in S	et of 24						per set	5	00
Nerve E	xtractors, Barbo	ed, for Soc	cket.					per doz.	0	75
" C	avity Pluggers	44						44	0	75
" Ez	tractors, Squar	e Steel Hr	ndles					**	2	00
Probes,	for examination	s, Round	Handle	es .					1	25

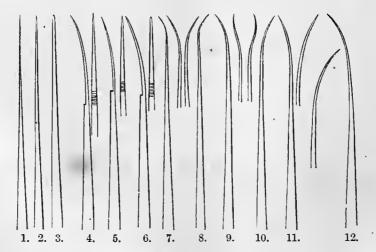
DR. CORYDON PALMER'S NERVE INSTRUMENTS.



The Set consists of 21 Instruments, made of the best quality of steel, finished and tempered in the best manner. We also manufacture Sets of 15 Instruments. Patterns furnished by Dr. Palmer.

Per Set of	15 .	•	•				•	 \$4	00
" " of	221							5	50

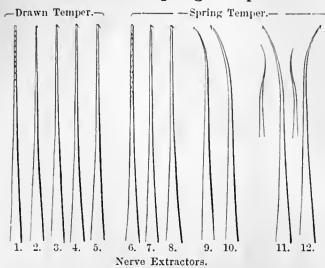
DR. HUNTER'S NERVE CANAL PLUGGERS.

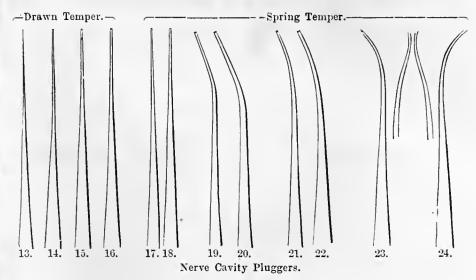


The Set consists of 12 Instruments, carefully made, and tempered in the best manner.

DR. ARRINGTON'S NERVE EXTRACTORS AND FANG FILLERS.

Drawn and Spring Temper.





BARBED NERVE EXTRACTORS.

In Packages of One Dozen, Assorted Sizes, Soft and Half Soft.

ALSO,

SOCKET HANDLE WITH RING SLIDE,

ADAPTED TO THE EXTRACTORS.

"They are very delicate, and more perfectly barbed than any we have seen. They catch readily and hold tenaciously anything in the shape of tooth pulp that may be brought in contact with them. They constitute a beautiful example of the progress that has been made, in comparatively a short time, in the manufacture of fine, delicate instruments for dental purposes."—Dental Register, Sept., 1866.

NERVE EXTRACTOR AND HOLDER.

FILES.

MURPHY'S-Philadelphia Manufacture.

Separating		10 cts. e	ach; per do	z. \$1 00
Finishing, Bevel Edge		18	44 44	2 00
" Flat Oval, Blunt and Pointed		18		2 00
Molar, Single Curve		18		2 00
" Double Curve		22		2 40
" Feather Edge .		30	• • • • • • • • • • • • • • • • • • • •	3 25
" Extra thick .		30		3 25
Oval Stump		18		2 00
Half-Round Stump		18		2 00
Finishing, for Lateral Cavities, Double-en	nd .	22		2 40
" for Crown " "	•	22		2 40
Bicuspid (thick and thin)		18		2 00

STUBS'-Our own Importation.

(See Plate Files.)

Senarating	various cuts							ner doz	2.50
separating,	various cuts	•	•	•	•	•		per doz.	⊿ 00

ROMMETIN'S (Successor to FROID).

Our own Importation.

(See Plate Files.)

Separating, One Safe Side, Nos. 1 to 8		per doz.	1 40
" Cut Four Sides, Nos. 6, 7, and 8.		"	1 40
" Curved, Cut Inside, Nos. 3 to 6 .		**	1 40
" Cut Outside, Nos. 3 to 6.		66	1 40
Plug Finishing, Pointed, Nos. 0, 1, 2, and 3		each	16
" Blunt, Nos. 0, 1, 2, and 3		66	16
" Pointed, Curved, Nos. 0, 1, and 2		4.6	16
" Blunt, " Nos. 0, 1, and 2		6.6	16
Stump, Half Round, Pointed, Nos. 1 to 5		4.4	22
" Blunt, Nos. 1 to 4		+ 6	22
"Oval, Blunt, Nos. 0, 1, and 2			22
" Pointed, Nos. 0, 1, and 2		••	22
Knife-Edge or Bicuspid, Pointed, Nos. 3, 4, 5, and 6			22
" Blunt, Nos. 1, 2, 3, and 4		4.6	22

DR. FORBES' FILE CARRIER.



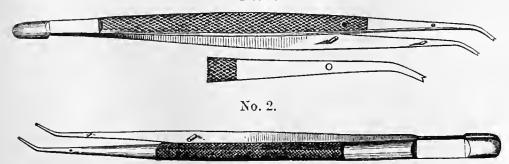
The Cut is exactly half the size of the Instrument. Designed for Files for finishing fillings. The Files are three inches in length, and from one-eighth to three-sixteenths of an inch in width, and of various thicknesses and cuts. The Shaft extends through the Handle, and can be adjusted at any point by a Thumb-screw at the end. Files of different lengths can be used and held firmly.

FILE CARRIER FOR SEPARATING.



FOIL CARRIER AND PLUGGER COMBINED.

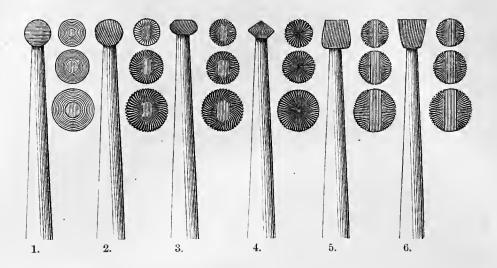
No. 1.

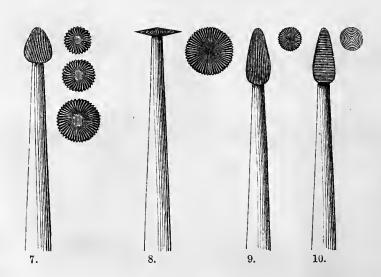


The superiority of this Instrument over the ordinary Foil Tweezers, consists in the additional strength, the Serrated Points, and the large, rounded end of the Handle, which permits the use of it, when desired, as a Plugger to fix the gold in the proper position.

No. 1, Flat Handle .						2 0	0
No. 2. Octagon Handle						1 7	5

PLUG FINISHING BURS.

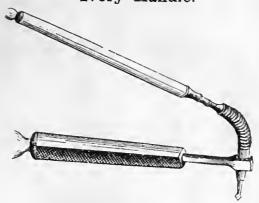




These Burs are made of first quality steel, extra fine cut, and finished in the best manner. Numbered from 1 to 7, each number being made of three sizes—three-sixteenths, four-sixteenths, and five-sixteenths of an inch in diameter. Numbers 8, 9, and 10 are of one size only.

MERRY'S DRILL.

Ivory Handle.



This Drill can be applied at any angle desired.

Two dozen Bits accompany it. Complete . . .

. \$4 50

METCALF'S ANNEALING LAMP.

(IMPROVED.)



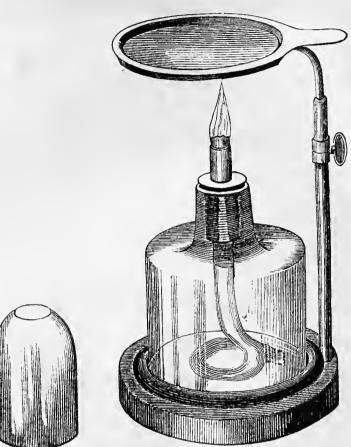


The Cut represents about one-third the size of the Lamp. Tray of Mica.

Silver Plated.	Complete		•				\$14 00	
Brass.	"						10 00	

GOLD FOIL ANNEALING LAMP.

Our own Design.





The Cut represents the Lamp half size. Base of Ebony, and Annealing Tray of German Silver.

Complete \$2 50

Some of the advantages claimed for the "Annealing Lamp," are: by its use all soft Gold Foils are made as adhesive as the best Adhesive Foils.

Any amount of heat sufficient to make the Foil adhesive can be produced without fear of melting the edges.

It does not make the Foil hard and unyielding, as is often the case when passed through a flame, but leaves it soft as before annealing.

It keeps the Foil warm during the operation, thereby preserving its adhesive quality in the most perfect condition.

The adhesive quality is imparted to the Foil after it is prepared for the cavity, obviating the annoyance often experienced, especially in warm weather, in having its adhesiveness partially destroyed by the moisture of the fingers.

CREASOTE APPLIANCE.



Intended to prevent fluid caustics, such as Creasote, or Solution of Nitrate of Silver, from running down and cauterizing the lips when being applied to the gums. The Cut shows the size of the Instrument. A Spiral Platina Wire, two inches long, is inserted in a Handle, passing through a small piece of Sponge, over which is a Glass Tube one and a quarter inches long. The Tube slides over a part of the Handle to keep it firm, and to hold the Wire in the centre. When the caustic is taken up on a small piece of cotton, if any should run down, it is caught in the Tube.

SYRINGES.

Gold, extra	heavy,	18 cara	ts fine	, two) Pip	es		. `				30	00
Silver, two	Pipes	•										7	50
Coin Silver	, small s	size, Ele	ectro-g	ilded	l, wit	h two	o Pip	es, a	bean	tiful	article	7	50
Silver Plat	ed,.two	Pipes										4	00
Glass, Silve												4	50
Britannia,	Silver P	ipe										1	00
4.6	German	Silver 1	Pipe									0	63
Vulcanized	Rubber											1	00
6.6	6.6	Silver	Pipe									1	50
. 6		18 cars	it Gold	l Pip	e							3	50
* "	6.6	Small,	Gold 1	Pipe,	for	inject	ting	Iodin	es an	d Ac			
		Abs	cesses									7	00
* Vulcaniz	ed Rub	ber, sma	all, wi	th St	eel P	ipe,	Subci	itane	ous			4	00
Glass, smal	ll, with	Steel Pi	pe, Su	beuta	neou	18						5	00

* Inclosed in neat Morocco Cases, convenient for the Pocket, and protecting the Syringe.

ELECTRO-PLATED ELASTIC BULB SYRINGE.



Entire length, 6 inches; diameter of Bulb, 12 inches.

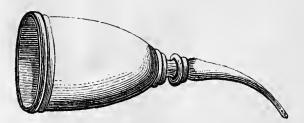
DIRECTIONS.—Compre	ss the	Bulb,	insert	the	point	under	water;	it fills		
itself	, and	is read;	y for us	se .					\$2	50

SAW FRAMES.

Ivory Handles.



TAFT'S EXTENSION THIMBLE.



The accompanying Cut represents an Extension, to be used upon the index or middle finger of the left hand. It is employed to aid in holding the napkin, paper, spunk, or whatever may be used to prevent the encroachment of saliva. The point of this Instrument can extend into the mouth where the finger, either on account of its size, or for want of length, cannot go. It may also be used occasionally to hold down a piece of gold until it is made fast in the proper position. In filling the teeth of the left side, both above and below, it is decidedly advantageous. It will reach over and draw the napkin up firmly against the lingual sides of the teeth. There are four sizes, corresponding with numbers 7, 8, 9, and 10 of sewing thimbles.

Silver		:						3 00
Black Vulcan	ite .							40

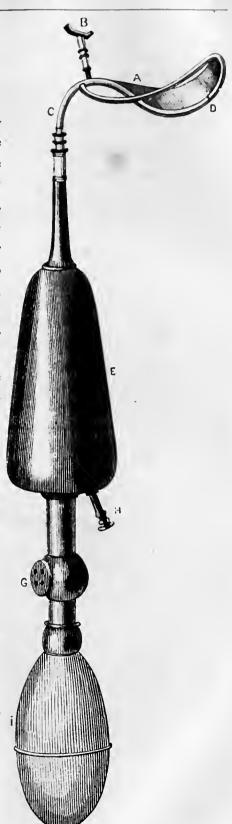
SALIVA PUMPS.

(See page 82.)

The annexed Cut represents Dr. Dibble's Saliva Pump and Tongue Holder combined. The object of this Instrument is to facilitate the operation of filling teeth of the lower jaw by keeping the mouth free from saliva, and as a means of holding the tongue away from the teeth; also a means of supporting the upper jaw, and so assisting the muscles which keep the mouth open, the application of which will be readily understood from the illustration. The Instrument is composed of Coin Silver heavily plated with gold, and Hard Rubber. A designates the Plate which keeps the tongue away from the teeth; B, the Arm which supports the jaw; C, the Silver Tube and Base which fit over the jaw; D, the opening where the saliva enters the Tube; E, the Chamber that receives the saliva. A vacuum is made in the Saliva Chamber by the pressure of the Bulb I, thereby causing the saliva to flow into the opening D; H, the opening where the saliva is discharged; G, the Exhaust Valve. There are two Mouth Pieces, one for the right side, and one for the left side of the mouth.

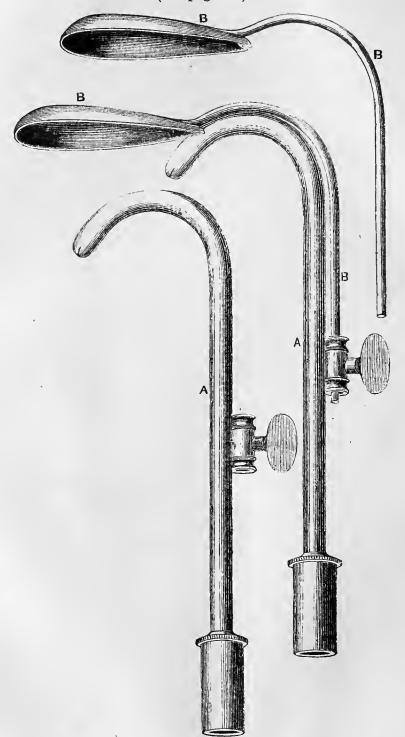
The Instrument is readily cleaned externally by means of a brush, soap, and water; internally, by drawing soap and water through it. It must not be laid down on its side after using until emptied of saliva. The entire length of the Instrument is fifteen inches.

Complete		•		\$16	00
Pump only				8 (00



DR. ARRINGTON'S ATTACHMENT TO DR. DIBBLE'S SALIVA PUMP.

(See page 81.)



Cuts, exact size of the Instrument. "A," Saliva Tube; "B," Tongue Holder.

1 00

50

German	Silver,	Electr	o-gil	ded							\$7	00
• •	••	Silver	Plat	ed							5	00
**		Plain									4	00
Pump,	ndditior	nal	•		•	•	•	٠			8	00
							Can sell	AND THE PERSON NAMED IN	The same			
						 Pigan	THE STATE OF THE S		1/2 1/2			

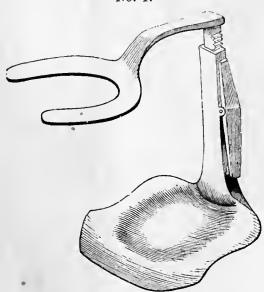
TONGUE COMPRESSORS.

Glass Tube, Elastic Bulb, Saliva Pump

Extra Glass Tube

Made of Coin Silver.

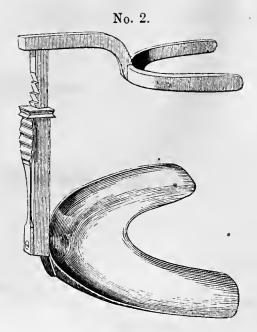




For the original idea of this simple, but very useful Instrument, we are indebted to Dr. Geo. E. Hawes, of New York City.

With this Instrument the tongue may be clamped down in place and kept in position as long as desired. The sublingual and submaxillary duets may be very effectually closed by placing upon them rolls or pads of bibulous or tissue paper before applying the Compress; a pad of paper or cloth should also be placed on the tongue before applying the Instrument. In filling the inferior molars and bicuspids, it will be found a useful Instrument.

11 00



DR. FLAGG'S TONGUE HOLDER.



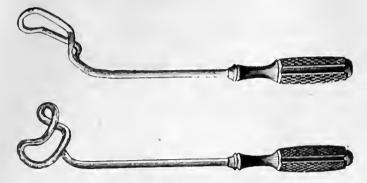
It will be found that the use of this Instrument will insure additional facility to the Operator, and maintain the tongue in position with perfect comfort to the patient, producing no fatigue, no unpleasant sensations, and even removing all desire to resist constraint.

DIRECTIONS FOR USE.

\$2 00

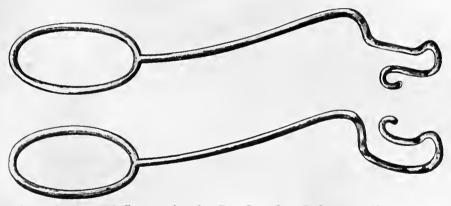
After introducing a fold of napkin, or a small piece of muslin, under the tongue, and then covering that organ by back-folding the napkin, or placing another small piece of muslin upon it, the Holder should be put in position nearest to the side where it is proposed to operate, and the patient be requested to retain it thus by means of the right hand if the cavity be on the left side, and the left hand if the cavity be on the right side, the elbow resting upon the arm of the operating chair . .

NAPKIN HOLDERS.

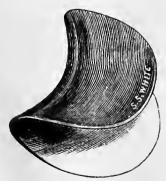


Ebony Handle, Silver Plated Wire each \$2 00

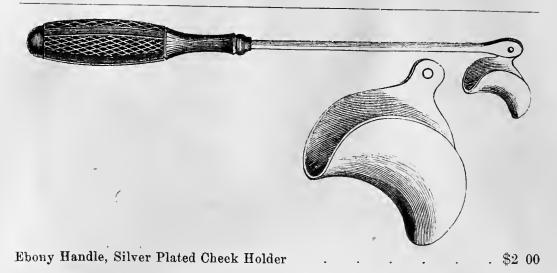
NEW FORM OF NAPKIN HOLDER.



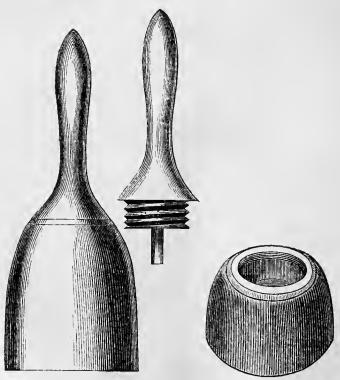
Presented to the Dental Convention by Dr. Corydon Palmer. (See report in November, 1865, number of the Dental Cosmos.) Manufactured by request of the Convention.



The advantage of this Instrument was suggested by the use of the ordinary Cheek Holder. It is found very useful in protecting the lips from being chafed, when using either Files, Drills, or Excavators.



MERCURY HOLDER.



For convenience in preparing Amalgam. The Cut represents the size of the Holder, which will contain one-eighth pound of Mercury. A small opening through the Tube allows the Mercury to escape in a very fine stream, which can be regulated at pleasure by means of a plug in the lower end of the Tube, or its escape prevented when not in use.

Holder, of wood, nicely polished.		•			25
" Filled with Re-distilled Mercury					50



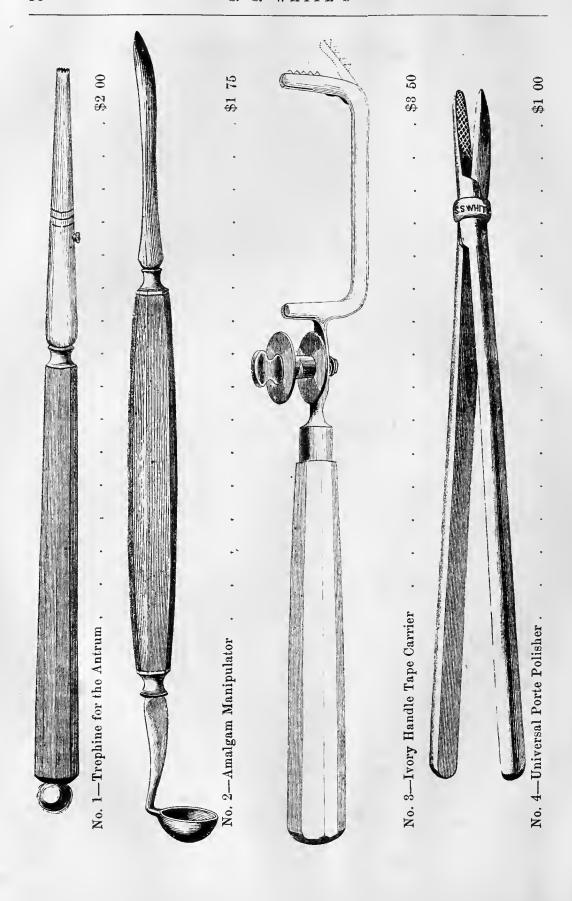


Made of thick Tin; four inches wide and five inches long; japanned on the back and face, as shown in the Cut. Two of these are used; a half sheet of Foil being laid upon onc, the other is placed over it with the Flange upon the extreme edge of the Foil and drawn to the other Flange.

BUR THIMBLES.



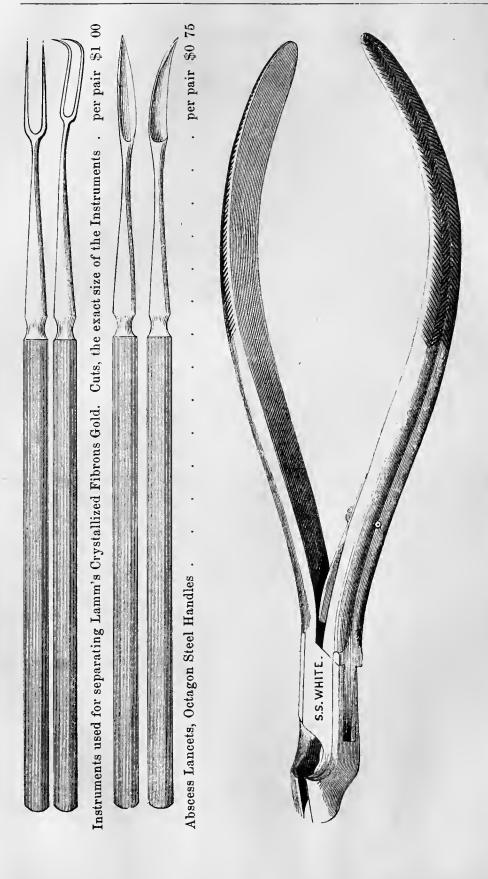
This consists of an open Ring for the middle or the index finger, with a Socket	
attached, in which rests the end of the handle of the Drill. It not only	
saves the hand, but the Instrument is rotated much more easily	56
Also, the same article made of German Silver, with the Thimble hinged on	
to the Ring	50



TREPHINE FOR THE ANTRUM.

Cut No. 1.	
This Instrument, made as a Trephine, will be found useful when it is desired to enter the Antrum through a tooth socket. There are two sizes, the larger being correctly represented in the Cut; the smaller one is contained in the Handle—which is hollow—and may be adjusted to the same Socket by the Screw represented in the Cut	\$2 00
AMALGAM MANIPULATOR.	
Cut No. 2.	
A convenient Instrument, recommended by English operators, designed to facilitate the preparation of Amalgam for fillings, having a Cup at one end for taking up the desired amount of filings or powder, and a curved Spatula at the other end for combining the Mercury with the filings and packing it in the cavity	1 75
IVORY HANDLE TAPE CARRIER.	
Cut No. 3.	
A very neat little Instrument intended to facilitate the use of Corundum Tape, made upon the principle of a File Carrier, and answering the purpose admirably	3 50
UNIVERSAL PORTE POLISHER.	
Cut No. 4.	
The Cut gives the size and form of the Instrument. It is made of polished steel, neat and durable. The advantages over the ordinary Porte Polishers are that the material used as a polisher can be shifted without trouble to any desired angle, and the piece of wood or stone may be flat, oval, or round, and held firmly in its place. Corundum Points, oval in form, and about a half inch in length, for cutting down fillings, removing superficial decay, and dressing filed or fractured surfaces of the teeth, adapted to this Instrument, will be furnished with the Porte Polisher if desired. Universal Porte Polisher	1 00

Corundum Points, 25 in a box . . .



\$2 25 Wedge Cutter.-The Wedge for separating is now so frequently used that an Instrument is needed to cut off the excess of wood after it has been driven between the teeth. It is applicable both to the inside and outside of the jaw. Is of polished steel, and in all respects a beautiful and practical Instrument

08

FOIL SHEARS.



Steel, Ja	panne	d I	Iandles,	8 inc	lies					\$1	00
Polished	Steel,	8	inches	•		•				1	00
h 6	4.4	9	6.6							2	00

REVOLVING HEAD SOCKET.



obtained by their use. Per piece of two yards

WATER-PROOF POLISHING TAPE. After repeated experiments, we are now prepared to offer Tape covered with a variety of reducing and polishing powders for finishing fillings, held in contact with the Tape, by a preparation which is not dissolved by moisture. There are five grades, No. 1 being the finest, and No. 5 the coarsest. Put up in pieces of two yards \$0 10 COTTON WOOD. Recommended by those who have long used it as a superior Wood for carrying polishing powders; possessing the advantage, when wet, of retaining the powder; very useful in polishing fillings and teeth after the removal of tartar. Put up in packages of one dozen strips eight inches in length by a quarter of an inch square. 20 Per dozen . DENTISTS' NAPKINS. Fine quality, all linen, Damask Napkins, 6½ inches square. 1 00 per doz. Damask Napkins, $12\frac{1}{2}$ by $11\frac{1}{2}$ inches, cut and fringed 1 75 12 inches square 1 50 Also, for the mouth, in square and oblong pieces, stitched to prevent raveling, the following varieties, made of fine Bird-Eye Diaper: Square, 31 inches per doz. 40 80 $5\frac{1}{3}$ " by 7 inches 80 Oblong, 4 Also, fine Bird-Eye Diaper Napkins, hemmed, $10\frac{1}{2}$ in. square. 2 00 $10\frac{1}{2}$ in. $10\frac{1}{2}$ in. 2 75 Extra " 66 16½ in. 5 00 PREPARED COTTON FOR DENTAL PURPOSES. A good article of Cotton, adapted especially for a reliable absorbent for drying cavities preparatory to filling teeth per package 20 FLAX COTTON. A beautiful article, much superior to any heretofore offered for dental pur-15 per package poses.

SPUNK FOR DRYING OUT CAVITIES.								
A superior article for drying out cavities and absorbing saliva while filling teeth. This article has been tested by a number of leading Dentists in Europe and in this country, and is said to be superior to anything now in use for such purposes.								
It is very valuable in absorbing the moisture in sensitive teeth, as the patient does not experience the pain produced by the application of paper								
or cotton per ounce	\$0 20							
DIDIII OIIC DADED								
BIBULOUS PAPER.								
Direct importation from Paris.	0.00							
Per ream	3 00 20							
FRENCH RUBBER TUBING.								
A large supply of assorted sizes best French Tubing, for dental purposes.								
Per foot, all sizes	20							
COFFER-DAM RUBBER.								
(Barnum's.)								
A large supply of this popular article. Per yard	3 00							
" ounce (Troy)	50							

DENTAL CASES.

HAVING devoted special attention to the manufacture of Dental Cases, we think our arrangements are so complete as to afford unequaled facilities for supplying the demands of the Profession in variety, quality, and price. We have secured skilled workmen, have large quantities of well-seasoned Wood, import Velvet direct for linings—the silk of Lyons manufacture, the cotton of English, silk finish.

They are mounted with Brass, or German Silver, so as to secure the best appearance with the greatest amount of strength, and are polished and finished throughout in a workmanlike manner. Our assortment includes Rosewood, Walnut, Mahogany, and Leather covered. Special styles will be made to order.

They will be fitted to order with Drawers, Trays, or apartments for Instruments, Phials, etc.

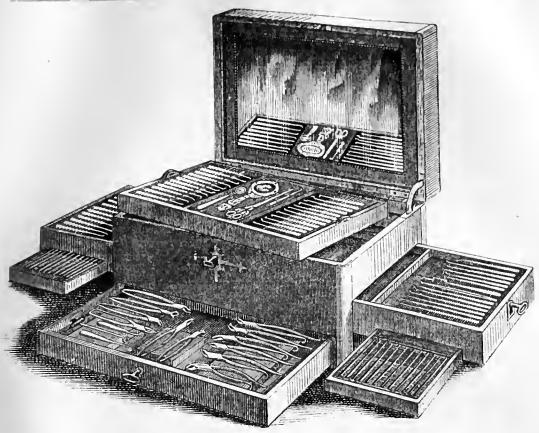
No charge is made for selecting the Instruments.

Our plan of affixing the price to each article in the list enables the purchaser to estimate the aggregate value of a Case and its contents, and to direct any variations from the ordinary styles that he may deem desirable.

We give descriptions of eight of the Cases in most general use, and are prepared to furnish others still more elaborate at prices ranging from Four Hundred to One Thousand Dollars.

Note.—When an order for a Case is received, the Instruments desired are selected especially for it, and blocks carved to fit each of them. The blocks are then fastened into the Case and covered with Velvet, so as to make a uniform lining throughout. After this it is impossible to make changes, or add other instruments, without spoiling the Velvet. The selection of Instruments should therefore be carefully made when giving the order, and any article which it is desired to have in the Case should be sent at the same time, that its shape may be carved in the wood before covering.

If desired, a Tray or Drawer may be left without lining, and the Velvet furnished for covering it. The purchaser can then have it fitted to suit himself; but this plan we have not found satisfactory as a rule. The better plan is to have all the work done at the same time and place.



This Cut represents a No. 1 Case.

Operating Case, No. 1.

v 0					
×6	Five-eighth Inch Cameo Handle Scalers, Gold Plated Ferry	ules .)		
18	" " " Pluggers and Burnishers,	Gold	}	\$70	00
	Plated Ferrules)		
1	Large Pearl Hand Mirror, Gold Mounted, No. 4.			25	00
1	Pearl Mouth Glass, Stone set, " 10.			7	50
1	Pair Pearl Handle Foil Shears, " 34.			16	25
1	Pearl Handle Gum Lancet, " 24.			4	00
1	" Tongue Holder, Stone set, " " 21.			2	25
2	Dozen large Steel Excavators, Octagon Handles, File-cu	t, at \$3	25		
	per doz			6	50
2	ti Fine sinkth Inch Inches III - III - Dleanness and Coole				
_	" Five-eighth Inch Ivory Handle Pluggers and Scale	rs, Gern	nan		
_	Silver Ferrules, at \$18 00 per doz		aan	36	00
Ī	Silver Ferrules, at \$18 00 per doz		aan	-	00 50
1	Silver Ferrules, at \$18 00 per doz			2	
1	Silver Ferrules, at \$18 00 per doz Improved File Carrier, Ivory Handle			2	50
1 1 1	Silver Ferrules, at \$18 00 per doz. Improved File Carrier, Ivory Handle Foil Carrier and Plugger combined Revolving Head Drill Socket, Ivory			2 1 2	50 75

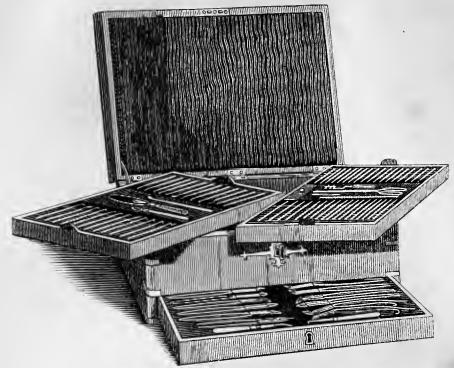
^{*} The same Case, with § inch Pearl Handle Pluggers and Scalers, \$350.

2	Pair	Forcep	s, Upper Molar, R. and	L., Oct. Joints,	Ex. Qua	l., No. 18	\$5 0	0
1	44	4.6	Lower Molar,	66	44	" 15	2 5	50
1	"	4.6	" Bicuspid,	4.6	4.	· · 21	2 5	50
1	**	• •	Upper "	4.	4.	" 11	2 5	50
1	٠.	••	" Incisors,	+ 6	• 6	" 13	2 8	50
1	4.	. 6	Lower "	• •		9	2 8	50
1			Dentes Sapientiæ,			10	2 5	50
1		••	Excising,	4.	•	12	2 5	50
1	6.6	4.4	Roots, Straight,	••	**	" 1	2 5	50
1	44	• •	" Crooked,	4.	4 -	3	2 5	50
1	4.6	Hullih	en's Screw Forceps,	+4	••		3 7	75
2	Eleva	itors, Iv	vory Handles, at \$2 00 ea	ch .			4 0	0(
1	Impr	oved K	ey, Ivory Handle .				3 ()(
	In ar	extra i	fine Rosewood Case, 20 in	. by $13\frac{1}{2}$ in. by	8 in., fu	ll Brass-		
		boun	d Corners and Edges, wit	h five Drawer	s at the s	sides and		
		fron	t, with two Trays at the	top, one with	Comparti	ments for		
		Foil,	Files, Teeth, etc., and wi	ith a Mirror in	the Lid	to reflect		
		the I	instruments in the top Tra	y. Lined with	a extra h	eavy Silk		
		Velv	et				85 0)(
							<u>фоло</u> »	
			Operating (Casa No 9			\$300 ×	**
			Operating	0450, 110. 2.				
*6	Half-	inch Ca	meo Handle Scalers, Gold	l Plated Ferru	les .	.)		
18	4.4	4.4	" Pluggers and	d Burnishers,	Gold Plat	ted Fer- }	60 0)()
			rules			.)		
1	Large	e Pearl	Hand Mirror, Gold Moun	ted, No. 9			15 7	75
1	Pearl	Mouth	Mirror, " "	" $10\frac{1}{2}$			7 2	25
1	Pair :	Pearl H	andle Foil Shears, Gold N	Mounted, No. 3	8 .		14 0	0(
1	Pearl	Handle	e Gum Lancet, "	2	5 .		3 5	0
2	Doze	n large	Octagon Steel Excavato	rs, File-cut H	landles,	at \$3 25		
		pe	r doz				6 5	50
1	"	Octag	on Steel Pluggers, File-cu	it Handles			6 0	0
1	Revo	lving H	ead Drill Socket, Ivory				2 2	25
1	Impr	oved Fi	le Carrier, Ivory Handle				2 5	60
1	Plugg	ger and	Foil Carrier combined				1 7	5
2	Dozei	Socke	t Drills, at \$1.50 per doz.				3 0	0
1	Silver	r Mount	ted Glass Syringe				4 5	0
2	Pair	Forceps	s, Upper Molar, R. and L.	, Oct. Joints, .	Ex. Qual	, No. 18	5 0	0
1	66	44	Lower Molar,	44	4.6	" 15	2 5	0
1	4.6	4.	" Bicuspid,			21	2 5	0
1	• 6	• 4	Upper "	••	••	11	2 5	0
1	4-	••	" Incisors,			·· 13	2 5	
1		4.6	Lower "	6.6		9	2 5	
1	4.6	4.6	Dentes Sapientiæ,			10	2.5	
1	4.6	4.	Excising,		6.6	" 12	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
_							_ ~	

^{*} The same Case, with half-inch Pearl Handle Pluggers and Scalers, \$250.

					_						
1 P	air Forceps,		Straight, Oct. Jo							\$2	
1	6.6		Crooked, "	4.6		3				2	50
1			v Forceps, "	4.6							75
2 E	levators, Ive	ory Han	dles, at \$2 00 e	nch .						4	00
	mproved Ke									3	00
I			Rosewood Case	_	-	-					
			rawer for Force	_		•					
	Compartm	ents for	Foil, Files, Te	eth, etc.	Plate	e Glas	s Mi	rror	in		
	the Lid, a:	nd lined	with heavy Sill	Velvet	-			~		55	00
										\$220	**
			Operating	Case, N	o. 3.						
*6 H	alf-inch Car	neo Han	dle Scalers, Go	ld Plated I	erru	les			à		
18		4	The state of the s				late	d Fer	- }	60	00
1 P	earl Hand N	firror (Sold Mounted, N	 [a 18	•	•	•	•		11	25
1	" Mouth	44	· ·	4 19½	•	•	~	•	•		00
1			ancet, Gold Mou	-	95	-	•	~	•		50
-	air Steel Fo		· ·		40	•	•	•	-		00
			rs, Octagon Ha	ndles et C	2 00	non de		*	-		00
2 D 1			uggers, Octagoi			per u	Z.	•	•		00
-			er, Ivory Handle	•	•	•	•	•	•		50
	-		gger combined	· ·	•	•	•	•	•		78
		,	at \$1 50 per do	z		•	•	•	•		00
			Socket, Ivory	4		•	•	•	•		28
			Molar, R. and		ninte	Ev C	· hual	No.	18		00
1	ii rorceps	Lower	Motar, Iv. and	ш., Ост. <i>э</i> т	лись,	11A. 6	zuar.	, 110.	15		50
1		Tower	Bicuspid,	4.6		6.		• 4	21		50
1		Upper	or or other states of the stat	44		44		46	11		50
1	44	o pper	Incisors,	4.6		6.		14	13		50
1	44	Lower	incisors,	6-5		66		66	10		50
1	66 44		Sapientiæ,	44				6.	10		5
_	44 44	Excisin	-					4.4	12		5
1	66		Straight,			66		66	1	$\frac{2}{2}$	
1		"	Crooked,	4.6		6.		6.6	3	2	
1			w Forceps,						9	3	
			bony Handles,		o a b		•	•	•		50
	mproved Ke	_	abouy Handles,	ar obr va 6	асп	•	•	•	•		
	-	•	d Rosewood Cas		h 19	lin h	. 7	in	ith	2	00
1.				-	•	_	-				
			of them stationar c., and Drawer fo	* .			-				
	Velvet	. сети, еп	o, and Drawer I	or rorceps.	נוות י	eu wit	ппе	avy	IIK	50	00
	A CTA CP		•		•	•	•	•	•		
										\$185	00
	of terms										

^{*} The same Case, with $\frac{1}{2}$ inch Pearl Handle Pluggers and Scalers, \$215.



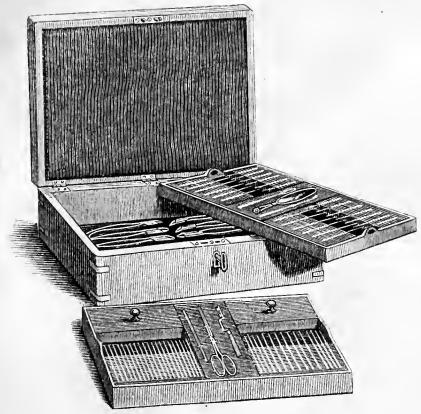
This Cut represents a No. 4 Case.

Operating Case, No. 4.

6	Five-eighth Inch Oct. Ivory Handle Scalers, German Silver Ferrules		
18	" Pluggers and Burnishers, Ger-	\$36	00
	man Silver Ferrules .		
1	Pearl Hand Mirror, No. 16	8	00
1	" Mouth Glass, " 19	2	50
1	" Gum Lancet, " 28	2	00
1	Pair Steel Foil Shears	2	00
2	Dozen Steel Excavators, Octagon Handles, File-cut, at \$3 25 per dozen	6	50
1	" Small Steel " Taper Pluggers, File-cut Handles .	5	00
1	Improved File Carrier, Ivory Handle	2	50
1	Pair Spring Plug Pliers		50
2	Dozen Socket Drills, at \$1 50 per dozen	3	00
1	Revolving Head Drill Socket, Ivory	2	25
2	Pair Forceps, Upper Molar, R. and L., Oct. Joints, Ex. Qual., No. 18	5	00
1	" Lower " " 15	2	50
1	·· · · · · · · Bicuspid, · · · · · · · · 21	2	50
1	" " Upper " " " " 11	2	50
1	" Incisors, " " 13	2	50
1	"Lower " 14	2	50
1	" Uentes Sapientiæ, " " 10	2	50
1	" Excising, " 12	2	50

1 Pa	ir Forceps, Ro	ots, Straight, O	et. Joints	s, Ex. Qual	., No. 1		\$2	50
1 "		· Crooked,	4.6	"	3		. 2	50
1	Hullihen's Se	crew Forceps,	6.6	66			. 3	75
		n Ebony Hand		25 each			. 2	50
In	a fine Brass-bo	und Rosewood	Case, 18.	$\frac{1}{2}$ in. by $12\frac{1}{2}$	in. by 7	in., with	1	
	three Trays, o	ne of them stat	ionary an	d divided i	into Comp	artments	3	
	for Foil, Teeth	, etc., and Draw	er for Fo	rceps. Lin	ed with Sil	k Finish	1	
	Cotton Velvet						. 36	00
							\$140	00

This Case, lined with heavy Silk Velvet, and Mirror in Lid, \$160.



This Cut represents a No. 5 Case.

Operating Case, No. 5.

6	Half-inch Ivory Handle	Scalers,	Ge	rman S	silve	er Fer	rules			1		
17	66 66	Plugge	rs a	nd Bur	nisk	iers, 6	der. S	il. Fe	rrule	es }	30	00
1	46 66	Socket	for	Drills			66		66)		
1	Pearl Hand Mirror, No.	15 .									7	00
1	" Mouth Mirror, "	19.									2	50
1	" Lancet, "	28 .									2	00
1	Pair Steel Foil Shears.										2	00
	Dozen Steel Excavators,											00

1.0								
I Doz	en Octag	on Steel Pluggers, File-cut	Handles				\$5	00
1 Imp	proved Fi	ile Carrier, Ivory Handle			•		2	50
1 Pai	r Spring	Plug Pliers						50
2 Doz	en Socke	et Drills, at \$1 50 per dozen	n				3	00
		s, Upper Molar, R. and L.,		First Qual.	., No.	18	4	00
1 "	"	Lower "	"	"		15	2	00
1 "	44	" Bicuspid and Incis	sor. "	6.6	66	14	2	00
1 "	4.6	Upper "		66	6.6	11	2	00
1 "	66	Dentes Sapientiæ,	4.6	66	6.6	10		00
1 "	66	Excising,	4.4	66	64	12		00
1 "	66	Roots, Straight,	46	6.6	4.6	1	_	00
1 "	6.6	" Crooked,	66	66	6.6	2		00
1 "	66	Half Curved Alveola,	44	66		39		00
_	vatora O	ctagon Ebony Handles, at \$	R1 95 each			00		50
	mp Scre		wi zo cach	•	•	•		25
	-	ound Rosewood Case, 16½ i	in by 11 in	hy 41 in	with t		1	40
		nd space for Forceps. Lin		_				
		id space for Forceps. Lin	led with blik	rinish Co	LLOH (61-	90	00
	vet		• •		•	•	28	00
							\$110	**
		Operating C	ase, No. 6	.				
e Plas	shad Day	ne Handle Scalers, German	Silver Fermi	lag				
o pies	испец во	ne nandie Scalers, German						
7	"				,loa)	0.0	
7	"	" Pluggers and Bu	rnishers, Ger	. Sil. Ferr	ıles	}	20	00
1	"	" Pluggers and Bu " Socket for Drills	rnishers, Ger		ıles	}		
1 1 Pear	" rl Mouth	" Pluggers and Bu " Socket for Drills Glass, No. 19	rnishers, Ger	. Sil. Ferr	ıles	}	2	50
1 1 Pear 1 "	" rl Mouth Hand l	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15	rnishers, Ger	. Sil. Ferr	iles	}	2 7	50 00
1 1 Pear 1 " 1 "	". rl Mouth Hand I Gum L	" Pluggers and Bu " Socket for Drille Glass, No. 19 Mirror, " 15 ancet, " 28	ernishers, Ger s, 	. Sil. Ferr	lles	}	2 7 2	50 00 00
1 Pear 1 " 1 " 2 Doze	" I Mouth Hand I Gum L en Socke	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50	rnishers, Gers,	. Sil. Ferr	lles	}	2 7 2 3	50 00 00 00
1 Pear 1 " 2 Doze 1 "	" I Mouth Hand I Gum L en Socke Steel I	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle	rnishers, Gers,	. Sil. Ferr	lles	}	2 7 2 3 2	50 00 00 00 00
1 Pear 1 " 2 Doze 1 " 1 Imp	rl Mouth Hand I Gum L en Socke Steel I roved Fi	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory "	rnishers, Gers,	. Sil. Ferr	lles	}	2 7 2 3 2	50 00 00 00 00 50
1 Pear 1 " 2 Doze 1 " 1 Imp	rl Mouth Hand I Gum L en Socke Steel I roved Fi	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers	rnishers, Gers,	Sil. Ferra		}	2 7 2 3 2	50 00 00 00 00 50
1 Pear 1 " 2 Doze 1 " 1 Imp	rl Mouth Hand I Gum L en Socke Steel I roved Fi	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L.,	rnishers, Gers,	Sil. Ferra		}	2 7 2 3 2 2	50 00 00 00 50 50
1 Pear 1 " 2 Doze 1 " 1 Imp 1 Pair	rl Mouth Hand I Gum L en Socke Steel I roved Fi	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers	rnishers, Gers,	Sil. Ferra		}	2 7 2 3 2 2	50 00 00 00 50 50
1 Pean 1 " 1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 "	of Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L.,	per dozen es Oval Joints,	Sil. Ferro			2 7 2 3 2 2 4 2	50 00 00 00 50 50 00
1 Pean 1 " 1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 "	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., (Lower "	per dozen es Oval Joints,	Sil. Ferro		15	2 7 2 3 2 2 4 2 2	50 00 00 00 50 50 00 00
1 Pean 1 " 1 Pean 1 " 2 Doz 1 " 1 Imp 1 Pair 2 " 1 "	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " "	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., Lower " Upper Bicuspid and Incis	per dozen es Oval Joints,	Sil. Ferra		15 11	2 7 2 3 2 2 4 2 2 2	50 00 00 00 50 50 00 00 00
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 "	orl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " "	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., o Lower " Upper Bicuspid and Incis Lower " "	per dozen es Oval Joints,	r. Sil. Ferra		15 11 14	2 7 2 3 2 2 4 2 2 2 2	50 00 00 00 50 50 00 00 00 00
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 "	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " "	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., Lower " Upper Bicuspid and Incis Lower " " Roots, Straight,	per dozen es Oval Joints,	Sil. Ferro		15 11 14 1	2 7 2 3 2 2 2 4 2 2 2 2 2 2	50 00 00 00 50 50 00 00 00 00
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 "	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " " " "	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., a Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked,	per dozen es	First Qual		15 11 14 1 2	2 7 2 3 2 2 2 2 2 2 2	500 000 000 500 000 000 000 000
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 1 "	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " " " " " " " "	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ,	per dozen es Oval Joints, """ """ """ """ """ """ """	First Qual		15 11 14 1 2 12	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	500 000 000 500 000 000 000 000 000
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 2 Elev	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " " vators, O	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., o Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ, ctagon Ebony Handles, at S	per dozen es Oval Joints, """ """ """ """ """ """ """	First Qual		15 11 14 1 2 12	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	500 000 000 500 000 000 000 000 500 500
1 Pean 1 " 2 Doze 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 Imp	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " " vators, O oroved Ko	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ, ctagon Ebony Handles, at Sey, "	per dozen es Oval Joints, "" "" "" "" "" "" "" "" ""	First Qual	., No.	15 11 14 1 2 12 10	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	500 000 000 500 000 000 000 000 500 500
1 Pean 1 " 2 Doz 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 1 " 1 Imp 1 Imp In	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " vators, O roved Ke a Brass-	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers t, Upper Molar, R. and L., (Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ, ctagon Ebony Handles, at Sey, " bound Rosewood Case, 16	rnishers, Gers, per dozen es Oval Joints, ors, " in \$1 25 each ½ in. by 11	First Qual	., No.	15 11 14 1 2 12 10	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	500 000 000 500 000 000 000 000 500 500
1 Pean 1 " 2 Doz 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 1 " 1 Imp 1 Imp In	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " vators, O oroved Ke a Brass- Trays, a	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers s, Upper Molar, R. and L., Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ, ctagon Ebony Handles, at Sey, "	rnishers, Gers, per dozen es Oval Joints, ors, " in \$1 25 each ½ in. by 11	First Qual	., No.	15 11 14 1 2 12 10	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 00 00 00 50 50 00 00 00 00 00 00 00
1 Pean 1 " 2 Doz 1 " 1 Imp 1 Pair 2 " 1 " 1 " 1 " 1 " 1 " 1 " 1 Imp 1 Imp In	rl Mouth Hand I Gum L en Socke Steel I roved Fi Spring Forceps " " " vators, O roved Ke a Brass-	" Pluggers and Bu " Socket for Drills Glass, No. 19 Mirror, " 15 ancet, " 28 t Drills and Burs, at \$1 50 Excavators, Octagon Handle le Carrier, Ivory " Plug Pliers t, Upper Molar, R. and L., (Lower " Upper Bicuspid and Incis Lower " " Roots, Straight, " Crooked, Excising, Dentes Sapientiæ, ctagon Ebony Handles, at Sey, " bound Rosewood Case, 16	rnishers, Gers, per dozen es Oval Joints, ors, " in \$1 25 each ½ in. by 11	First Qual	., No.	15 11 14 1 2 12 10	2 7 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 00 00 00 50 50 00 00 00 00 00 00 00

Operating Case, No. 7.		
6 Bleached Bone Handle Scalers, German Silver Ferrules		
17 " Pluggers and Burnishers, Ger. Sil. Ferrules	\$20	00
1 "Socket for Drills, " "		
1 Pearl Mouth Glass, No. 19	2	50
1 " Gum Lancet, " 28	2	00
1 Rosewood Hand Mirror, 4½ inch		90
2 Dozen Socket Drills and Burs, at \$1 50 per dozen	3	00
18 Steel Excavators, Octagon Handles, at \$2 00 per dozen	3	00
1 Pair Spring Plug Pliers		50
2 " Forceps, Upper Molar, R. and L., Oval Joints, First Qual., No. 18	4	00
1 " 'Lower " " 15		00
1 " " Bicuspid, " " 14		00
1 " Upper Bicuspid and Incisors, " " 11		00
1 " Roots, Straight, " " 1		00
1 " " Crooked, " " 2		00
1 " Excising, " 12		00
2 Elevators, Round Ebony Handles, at 63 cents each		25
1 Improved Key, ''		00
In a Brass-bound Mahogany Case, 16½ in. by 11 in. by 4½ in., two	_	0.,
Trays, and space for Forceps. Lined with Silk Finish Cotton Vel-		
vet	94	00
100,		
	\$75	XX.
	Q.O	~ ~
N. B.—A pair of Forceps may be substituted for the Key, if desired.	Q10	
N. B.—A pair of Forceps may be substituted for the Key, if desired. Operating Case, No. 8.	Ç.O	
Operating Case, No. 8.		
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules		50
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " "	7	50
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " " Socket for Drills, " " " 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch	7	50 50
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19	7 7 2	50 50 50
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19	7 7 2 2	50 50 50 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " " Socket for Drills, " " " 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch 1 Pearl Mouth Glass, No. 19	7 7 2 2 2	50 50 50 00 25
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19	7 7 2 2 2 2 2	50 50 50 00 25 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen	7 7 2 2 2 2 2 4	50 50 50 00 25 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " " Socket for Drills, " " " 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen	7 7 2 2 2 2 4 2	50 50 50 00 25 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28	7 2 2 2 2 4 2 2	50 50 50 00 25 00 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen	7 7 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2	50 50 50 00 25 00 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen 1 Dozen Steel Excavators, Octagon Handles 2 Pair Forceps, Upper Molar, R. and L., Oval Joints, First Qual., No. 18 1 " Lower " " " 15 1 " " Bicuspid and Incisors, " " 14 1 " Roots, " " 2	7 7 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2	50 50 50 00 25 00 00 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19	7 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 50 50 00 25 00 00 00 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " " Socket for Drills, " " " 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen 1 Dozen Steel Excavators, Octagon Handles 2 Pair Forceps, Upper Molar, R. and L., Oval Joints, First Qual., No. 18 1 " Lower " " " " " " 15 1 " " Bicuspid and Incisors, " " 14 1 " " Roots, " " " " " " " 11 1 " Roots, " " 2 2 Elevators, Round Ebony Handles, at 63 cents each	7 2 2 2 2 4 2 2 2 2 2 2 2 2 1	50 50 50 00 25 00 00 00 00 00 00 25
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " 12 Large Steel Pluggers, Octagon File-cut Handles, \$\frac{3}{8}\$ inch 1 Pearl Mouth Glass, No. 19 1 " Gum Lancet, " 28 18 Socket Drills, best quality, at \$1 50 per dozen 1 Dozen Steel Excavators, Octagon Handles 2 Pair Forceps, Upper Molar, R. and L., Oval Joints, First Qual., No. 18 1 " Lower " " " " 15 1 " " Bicuspid and Incisors, " " 14 1 " " Upper " " " " " " " " 11 1 " Roots, " " 2 2 Elevators, Round Ebony Handles, at 63 cents each 1 Improved Key, "	7 2 2 2 2 4 2 2 2 2 2 2 2 2 1	50 50 50 00 25 00 00 00 00 00 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1	7 2 2 2 2 4 2 2 2 2 2 2 2 2 1	50 50 50 00 25 00 00 00 00 00 00 25
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " " } 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch 1 Pearl Mouth Glass, No. 19	7 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 50 50 00 25 00 00 00 00 00 25 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1	7 2 2 2 2 4 2 2 2 2 2 2 2 2 1	50 50 50 00 25 00 00 00 00 00 25 00
Operating Case, No. 8. 11 Bone Handle Scalers, Burnishers, and Pluggers, Ger. Sil. Ferrules 1 " Socket for Drills, " " " } 12 Large Steel Pluggers, Octagon File-cut Handles, \(\frac{3}{8}\) inch 1 Pearl Mouth Glass, No. 19	7 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 50 50 00 25 00 00 00 00 00 25 00

Operating Case, No. 9.

A PRACTICAL OUTFIT FOR OPERATIVE DENTISTRY,

In a compact form, selected by a first-class Operator. To be added to or curtailed, as may be desired. Designed for a Traveling or Country Dentist.

						-			
A	Brass-bound Rosewood Case, 181 in. by 12	$\frac{1}{2}$ in.	by 7	in.	•	•		\$38	00
1	Five-inch Rosewood Plate Glass Hand Mir.	ror						1	00
1	Pearl Mouth Mirror, No. 11			•				2	10
1	" Cheek Holder or Spatula, No. 31							1	00
1	Pair Cast Steel Foil Scissors							1	00
1	Rubber Syringe, Silver Point							1	50
1	Universal Porte Polisher, and Box Corundu	m Po	ints					1	40
1	Half Round Corundum File				•				30
1	Arkansas Stone for sharpening								50
18	Five-eighth Inch Ebony Handle Pluggers							15	00
12	One-quarter Inch File-cut " "							6	00
12	Three-sixteenth Inch Octagon Handle Stee	l Plu	ggers					3	00
15	Dr. Atkinson's Pluggers, assorted, suitable	for	Foil,	Spon	ge, or	Shre	\mathbf{d}		
	Gold, and one Mallet							5	25
12	One-quarter Inch File-cut Handle Amalgar	n Plu	ggers	3				6	00
2	" " Burnishe	ers	•					1	00
3	" Chisels							1	50
3	" " Scalers							1	50
1	Set of twenty-four Nerve Extractors and	Fan	g Fil	llers,	Drav	vn an	d,		
	Spring Temper							5	00
24	Plain Octagon Handle Excavators .							4	00
12	" Burs							2	00
6	" Extra Fine-cut Burs							1	00
2	Pivot Drills, Octagon Handle								33
2	Nerve Cavity Drills, Spear Point .								33
1	Taper Steel Handle Plug Finishing Bur								70
3	Molar Files, assorted	•							7 5
3	Bicuspid Files, assorted	•			•				50
12	Separating Files, assorted							1	00
	Flat Oval Plug Finishing Files, assorted							1	00
6	Double end Plug Finishing Files, assorted	•						1	20
3	Stump Files, assorted							0	50

1	Foil Carrier and Plugger combine	ed							. \$1	75
1	Pair Small Flat Nose Pliers							•		40
1	Bur Thimble, Steel							•		60
1	Extension Thimble, Vulcanized I	Rubbe	r				:			50
1	Tongue Holder, Flagg's .								. 9	00
1	Lip Protector · · ·									75
1	Wedge Cutter, Polished Steel							•	. 2	25
10	Pair Octagon Joint Forceps		•					•	. 25	00
3	Elevators, Ebony Handles (Hook	, Pun	ch, a	nd Sc	rew)				. 8	75
1	Gum Lancet,									50
1	Pair Abscess Lancets, Octagon S	teel I	Iandl	es						75
6	Pieces each Cotton and Orange V	Vood								17
2	·· · · Corundum and Silex	Tape	:	•						32
1	Box each Pumice and Silex									20
1	Phial each Creasote, Perchloride	Iron,	Nerv	re Pa	ste				. 1	. 25
1	Oz. Rubber Dam for keeping Cav	ities	dry							50
6	Inches assorted French Rubber T	lubing	g, for	regu	lating	5				10
1	Book Gold Foil							(say) (00
1	" Tin "									50
1	Oz. Townsend's Amalgam .								. 2	00
1	Mercury Holder, filled .									50
14	Oz. Hill's Stopping (for temporar	y Fil	lings)					. 1	25
50	Assorted Pivot Teeth								. 4	00
1	Box Pivot Wood									50
1	Piece Ivory for Pivot Gauge								. 1	00
1	Box selected Asbestos (used as a	non-c	ondu	ctor	ınder	Filli	ngs)			10
1	Quire Bibulous Paper (for drying	cavi	ties)						•	20
1	Oz. Spunk (for drying Cavities)									20
$\frac{1}{2}$	Dozen Linen Napkins, each, large	e and	small						. 1	25
1	" Common Tooth Brushes								. 1	25
	Chamois Skins for Instruments				•	•	•		. 1	20
									\$165	**
									\$100	^

Cases can be furnished at still lower prices than No. 8, but they do not as a rule give satisfaction. The variety of Instruments is limited, and the quality necessarily inferior, much of the outlay being in the Case and fitting.

Those who wish a set of Instruments at a small cost, would do well to make a selection from the Catalogue, and have them inclosed in a Morocco-covered Box, or a neat Rolling Case.

PHYSICIANS' OR DENTISTS' PORTABLE EXTRACTING CASE.



Consisting of seven pairs of Forceps, Harris' pattern—all straight Handles, and can be used on either side.

This set is sufficient for all ordinary cases of extraction.

Put up with Gum Lancet in a neat, strong Walnut Box, with lock and key.

Outside measurement of Case, $9\frac{1}{2}$ in. by 8 in. by 2 in.

Octagon J	oints			•					•	\$23 00
Oval	66	•		-	-			-		20 00

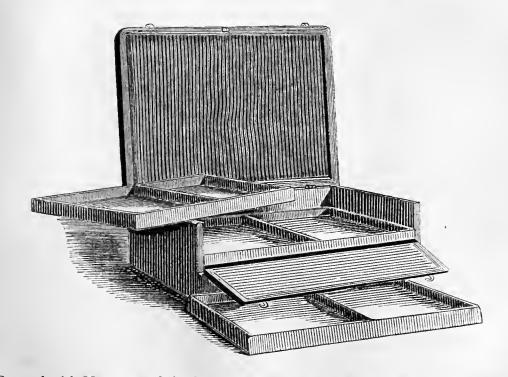
EMPTY DENTAL CASES.

Lined and fitted; ready for Instruments.

Mahogany; 2 Trays, and space for Forceps, 16½ inches long, 11 inches	
wide, and 41 inches deep, lined with French Cotton Velvet	24 00
Rosewood; same size, lined with French Cotton Velvet	28 00
Rosewood; 1 Drawer and 3 Trays, one stationary and divided into Compart-	
ments: $18\frac{1}{2}$ inches long, $12\frac{1}{2}$ inches wide, and 7 inches	
deep; lined with French Cotton Velvet	36 00
Rosewood; same size and description, lined with extra heavy Silk Vel-	
vet	50 00
Rosewood; 5 Drawers and 2 Trays, one stationary and divided into Compart-	
ments: 20 inches long, $13\frac{1}{2}$ inches wide, and 8 inches	
deep, with heavy Brass Mountings, Corners and Edges;	
lined with extra heavy Silk Velvet	85 00

Rosewood;		e and des	-		-					
	ful a	and subst	antial Ca	se .					\$125	00
Cases cover	red with I	Muslin, Sl	kiver, Tu	rkey Mor	occo, R	ussia I	eath	er,		
	etc.,	for Stud	ents, Der	itists, an	d Physi	eians,	made	e to	•	
	orde	r, from						. 5	00 to 20	00
Rolling Cas	ses for In	strument	s, lined v	vith Char	nois, 5 S	Spaces			1	50
6.6	44	4.6	4.6	4.6	7	6 6			1	75
**	* 6			• •	9	• •			$\overline{2}$	00
		• •	• •	4 +	12				2	25
4.6		6.6	••	4.4	15	6.			3	00
• •	6.0	. 6	• 6	. 6	20	6.			4	00
Any	other siz	e made to	order.							
I'alises mad	e of Sole	Leather	, with Ir	on Fram	es, for	Dental	Cas	ses,		
	from			•				. 7	00 to 12	00

THREE-TRAY STUDENTS' CASES.



Co.	vered w	ith Mor	occo a	nd	lined with	Cot	ton	Velvet,	of	the fol	llowir	ng siz	es:		
10	inches	by 6 inc	hes by	y 4	inches			•						6	00
	66														
12		9	66	5											

STUDENTS' PORTABLE CASE.



Made in the form of a Valise, the frame is of Wood, covered with Morocco. Outside measurement, when closed, 12 inches long, 9 inches wide, and $3\frac{1}{2}$ inches deep. The Case is divided in the centre, each half having a cover to protect the Instruments. Lined with Cotton Velvet . . .

\$12 00

MOROCCO TEETH CASES.

For Artificial Teeth.



Half Oval.

	$2\frac{1}{2}$ inches	Satin and Silk Velvet lined, $3\frac{1}{4}$ inches in length by $2\frac{1}{2}$	Half
65	each	n width by 1 inch in depth, Brass Hinge	
	in width	Cotton Velvet lined, 3 inches in length by 21 inches in	Half
35	each	y $1\frac{1}{2}$ inch in depth, Leather Hinge	

Half Oval, Cotton Velvet lined, 3½ inches in length by 23 inches in width	
by 11 inch in depth, Leather Hinge each	\$0 35
Half Oval Card Boxes (paper), lined, 3 inches in length by 2 inches in	
width by 11 inch in depth per dozen	1 75



Oval.

	and Silk Velvet lined, 4½ inches in length by 3¼ inches in width	
85	by 11 inch in depth, Brass Hinge each	
	Boxes (paper), lined, 33 inches in length by 3 inches in width	
2 00	by 1 inch in depth per dozen	



Oblong.

Oblong, Satin and Silk Velvet lined, 4½ inches in length by 3½ inches in	
width by 15 inch in depth, Brass Hinge each	85
Oblong Card Boxes (paper), lined, 4 inches in length by 3 inches in width	
by 1 inch in depth per dozen	2 00
Oblong Card Boxes (paper), lined, 3 inches in length by 21 inches in width	
by $\frac{3}{4}$ inch in depth per dozen	1 50

PEARL GOODS.

Our assortment of articles in this line is very extensive—having unequaled facilities for their manufacture.

PEARL HAND MIRRORS.



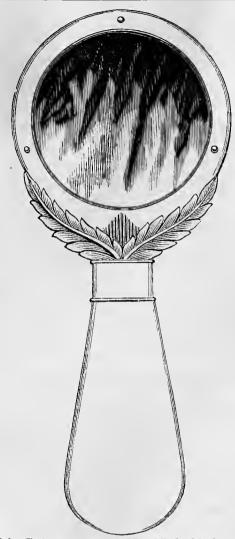
This Cut represents No. 1, half the size, front and back view.

No. 1.	Gold Mounted,	Saw pierced,	Stone set,	carved	on	both	sides		\$40	00
No. 2.		i i	66	66			66		35	00
No. 3.	66	4.4	. 6						27	00
No. 4.	66	66	66						25	00



This Cut represents No. 8, $9\frac{1}{2}$ inches long and 4 inches wide.

No.	5. Go	ld Mou	nted, Setting	in Ferrule	e .				\$11 50
No.	$5\frac{1}{2}$.			3 Rosettes					12 50
No.	6.	• 6	without	Setting					10 00
Nos.	7, 8.	6.	Saw pie	rced, Sett	ing,	3 Ros	ettes		21 00
No.	9.	• 6	Setting,	3 Rosette	s.				15 75
No.	$9\frac{1}{2}$.	6.6	• 6	6.6					$20 \ 00$
No.	10.	"	4.6						14 00
No.	11. Si	lver Mo	unted, plain I	Handle					10 00
No.	12. Go	old Mou	nted, large, S	etting, 3 1	Rosei	tes			22 50
Nos.	13, 14. G	old or S	ilver Mounted	l, without	Sett	ing			15 00



This Cut represents No. 15, half the size.

No. 15. Silver Mo	ounted, sm	all, plain	Han	dle							\$7	00
No. 16.		ge, "	4								8	00
No. 17.	lar	ger, "	٠	•							10	00
No. 18. Gold Mo	unted, wit	hout Set	ting								11	25
No. 19. Silver		in Rim									9	00
No. 20. "		ved Rim									11	00
Extra large, beau	tifully car	ved on bo	th si	ides,	and	Stone	set,	from	\$50	00 to	75	00

PEARL MOUTH MIRRORS.



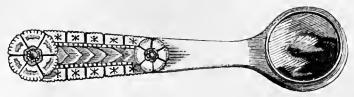
This Cut represents No. 10, half the size.

No.	10.	Star pattern, carved	on	both	sides,	Gold	Lyre,	double	Glass	з,		
		jointed, 2 Rosettes								•	7	50
No.	$10\frac{1}{2}$.	Star pattern, carved	on	both	sides,	Gold	Lyre,	double	Glass	3,	_	
	_	jointed, 1 Rosette								•	7	25



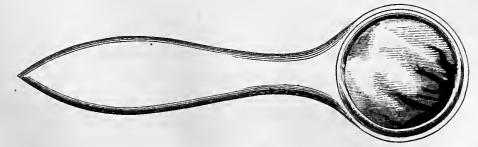
This Cut represents No. 11, full size.

No. 11. Plain,	oval Glass,	Pocket,	Silver	Mounted			\$2 00
No. 11½. "	4.4	4.6	Gold	6.			2 50



This Cut represents No. 12, half the size.

No. 12.	Star patt	ern, ro	und G	lass, Go	old Mou	nted,	2 Ro	sette	s			3	50
No. $12\frac{1}{2}$.			66	66	"		2	"	Ma	gnify	ing	4	00
No. $12\frac{3}{4}$.	6.6	01	val	64	46		2	6.6		6.6		4	25
No. 13.	Figured,	round	Glass,	Gold M	Iounted	, 1 R	osette	9				3	00
No. 13½.		oval	"	"		1	"	Mag	gnify	ing		3	50
No. 14.	Dolphin,	${\tt round}$	6.6	6.6								2	30
No. 15.	6.6	6.6	66	6.6		Ma	gnify	ing				2	75
No. 16.	61		"	Silver	r Mount	ed						2	00
No. 17.	4.4	small,	round	Glass,	Silver M	Ioun	ted					1	90



This Cut represents No. 18, full size.

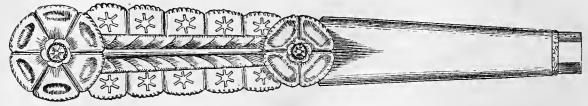
No.	. 18.	Plain.	round	Glass.	Pocket.	Silver M	ounted			1	50



This Cut represents No. 19, half the size.

No. 19. Plain, double Glass, jointed, Silver Mounted		. \$2	50
No. $19\frac{1}{2}$. Figured, "Gold".		. 4	00
No. $19\frac{3}{4}$. Dolphin, """.		. 4	25
No. 21. Plain, oval Glass, Pocket, " Magnifying		. 3	00
No. $21\frac{1}{2}$. "Silver" "		. 2	50
No. 22. Dolphin, oval Glass, Gold Mounted, Magnifying .		. 3	25
No. 23. Figured, " "		. 3	75
No. 24. Dolphin, Gold Mounted, jointed, 1 plain Glass, 1 Magnifying	ng	. 4	75
No. $24\frac{1}{2}$. Figured, " 1 " 1 "		. 4	50
No. 25. Plain, round Glass, Pocket, Gold Mounted, Magnifying		. 2	25
No. 26. Figured, Silver Mounted, jointed, 1 plain Glass, 1 Magnify	ing	. 3	25
No. $26\frac{1}{2}$. Plain, " 1 " 1 "		. 3	00
No. 27. Star pattern, Gold Lyre, "1" 1"		. 8	00

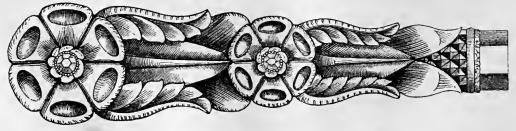
PEARL HANDLES FOR LANCETS.



This Cut represents No. 24, full size.

No	. 24.	Star pa	ttern,	carved	on	both side	es,	Gold I	Ferru	ıle, 2	Rosett	es	\$3	00
No	. 25.	Shell	6.6			6.6				1	Roset	te	2	50
No	. 26.	Dolphin				**		4.		1	Roset	te	2	35
No	. 27.	Fish	+ 4	• •		* 6		••					2	20
No	. 29.	Dolphin	٠٠.	+4		4.		• 4					2	20
No	. 28.	Plain, S	Silver	Ferrule	;								1	00

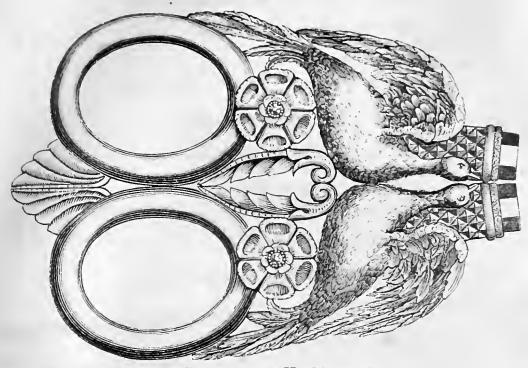
PEARL HANDLES FOR SCALERS.



This Cut represents No. 36, full size.

No. 35.	Shell par	ttern,	carved on	both sides,	Gold Ferrule	, 1	Rosette, 1	er doz.	\$60	00
No. 36.	Fancy		4.6	6.6	6.6	2	Rosettes	4.4	66	00
No. 37.	Dolphin			4.4	6.6	1	Rosette	4.6	48	00

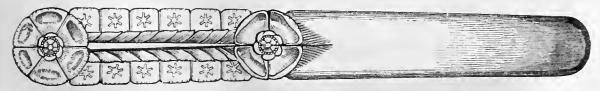
PEARL HANDLES FOR SCISSORS.



This Cut represents No. 34, full size.

No.	33.	Dog patt	tern,	carved on	both sides,	Gold Ferru	les		\$7 50	
No.	34.	Bird	66	6.	6.6	"	2 Rosettes		11 25	
No.	38.	Scroll	"	6.6	6.6	66	4.6		9 00	
No.	39.	Dolphin			6.6	6.6	4.6		7 00	

PEARL TONGUE OR CHEEK HOLDERS.



This Cut represents No. 21, three-fourths the size.

No.	21.	Star pate	tern,	2	Rosettes	3					\$2	25
No.	22.	Fancy	"	1	Rosette							
No.	23.	Dolphin	66	1	66							
No.	30.	Fancy	46									80
No.	31.	66	64								1	00
No.	32.	Dolphin	"					_			1	25

PEARL HANDLES FOR INSTRUMENTS.

Octago	n, plain taper,	Gold Ferrul	es, $\frac{5}{8}$ inch	•			per dozen	\$50	00
"	66	66	$\frac{1}{2}$ "				6.6	35	00
66	tapering each	way from th	he centre,	Gold Fer	rrules,	$\frac{3}{8}$ inc	h "	22	00
Revolvi	ng Head Drill	Socket, Gol	d Ferrule				. each	6	50
The a	above, with Sol	id Gold Fer	rules, fro	m \$6 to	\$8 per	doze	n additional.		

CAMEO HANDLES FOR INSTRUMENTS.

A beautiful article, preferred by many to Pearl.

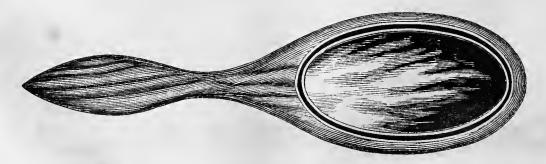
Octagon, pla	in taper	, Gold Fer	rrules, $rac{5}{8}$ i	nch				per dozen	\$25	00
b 4	6.6	66	$\frac{1}{2}$	46				66	20	00
The above	e, with S	olid Gold	Ferrules,	${\bf from}$	\$6 to	\$8 per	dozen	additional.		

HAND MIRRORS.

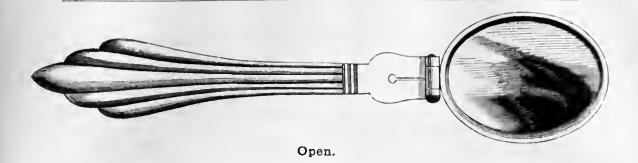
Imported direct from Paris.

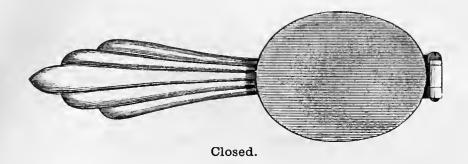
Rosewood,	Plate Glass,	$4\frac{1}{2}$	inch	•	•			each		90
	66								1	00
••	4.	$5\frac{1}{2}$	"					4.4	1	20
6.6	6.	6	66					66	1	50

MOUTH MIRRORS.

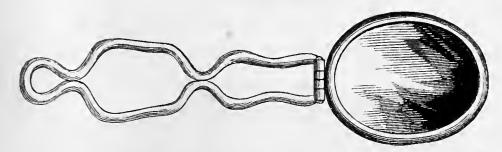


Rosewood, plain Glass each \$0 25





German Silver Frame and Handle, jointed, Magnifying Glass . each \$2 50



German Silver Wire Handle, Silver Frame, double Glass, jointed . each \$1 00



DENTAL CHAIRS.





DENTAL CHAIR.



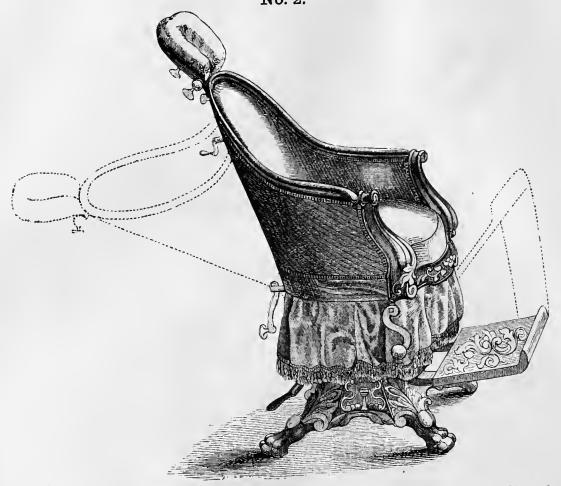
Above we give Cut of a Chair of our own design, and manufactured exclusively for us. It is capable of the following movements:

The Head-rest is moved forward and backward by means of a Rachet, A, and raised and lowered by a Slide, and held in the desired position by the Screw, B. The Seat is raised or lowered by means of the Crank, C. The Apparatus used for raising the Seat in this Chair (shown by the Cut) is a powerful and efficient arrangement. Dis a Foot-lever operating upon a screw, by means of which the Chair (seat, arms, and back) may be placed at any necessary angle. These Chairs are of Walnut stained to imitate Rosewood, Walnut oil finish, Walnut varnished, and Mahogany, covered with a superior article of crimson or green Plush, and upholstered and finished throughout in the best style.

									\$69 00
Finished v	vith S	ilver-	-head	ed Na	ils			extra	2 00
Boxing								4.6	4 50

Note.—These are Philadelphia prices, freight and other expenses to be added when sold at other Depots.

PERKINS' IMPROVED DENTAL CHAIR. No. 2.



The above Cut represents our improved Perkins' Patent Chair. It can be adjusted to any desired angle, from its upright position backward, to an angle of about 41 degrees; either side, 43 degrees; and obliquely, to 43 degrees, by means of a Ball-and-socket Joint which unites the Chair to its Base (which is of cast iron, bronzed), and is retained in any of these positions by a Double Screw, which is controlled by the foot of the Operator. The Seat and Foot-board are separately raised or lowered by means of Silver-plated Cranks. The machinery used for raising the Seat is a powerful Apparatus, and, like that used for raising the Foot-board, secures a rapid movement, and requires but little force from the Operator. The Head-rest is also raised or lowered by a Silver-plated Crank, and is so arranged as to be moved backward, forward, and sideways, and is held in position by Set Screws. The Curtain is intended to conceal the machinery. These Chairs are made of Mahogany, Walnut and Rosewood, are covered with superior crimson or green Plush, upholstered in the best style, and warranted to be stuffed with Hair only.

Walnut, Imitation of Rosewood .		:		\$160 00
Mahogany				$160 \ 00$
Rosewood				$170 \ 00$
Finished with Silver-headed Nails			extra	$2 \ 00$
Boxing			6.6	5 00

Note.—These are Philadelphia prices, freight and expenses to be added when sold at other Depots.

PERKINS' DENTAL CHAIR.

LATEST PATTERN.

No. 3.

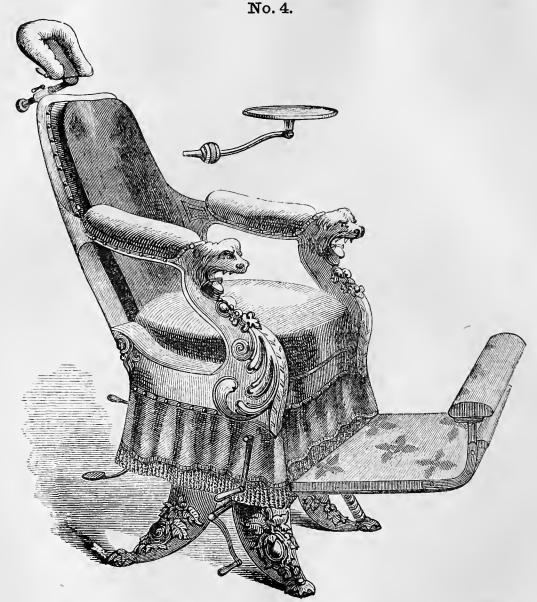


The above Cut exhibits the latest pattern of our Carved Frame Perkins' Patent Dental Chair. For strength, durability, and beauty of finish, these Chairs cannot be excelled. They are made of Oiled Walnut, Rosewood, and Walnut imitation of Rosewood; are upholstered in the best style at the following prices:

Rosewood .								\$185 00
Oiled Walnut								170 00
Walnut imitation	of	Rosev	rood					170 00
With Whitcomb's	H_0	ead-res	t sul	ostitu	ted		extra	$30 \ 00$
Upholstered with							4.6	$2\ 00$
Boxing .				, .				5 00

Note.—These are Philadelphia prices, freight and expenses to be added when sold at other Depots.

J. O. WHITCOMB'S DENTAL OPERATING CHAIR.



The above Cut represents J. O. Whitcomb's Dental Chair, the movements of which may be understood from the description:

The Crank in the Base gives motion to the powerful machinery operating upon four strong Screws, one in each corner, and the whole body of the Chair with the patient in it is easily raised or lowered to suit the convenience of the operator.

Being mounted on a large Ball, the body of the Chair may be reclined backward in any angle to about 60 degrees, and to either side to about 40 degrees; and is securely clamped in any of these positions by the Foot-lever.

The Crank, on the lower part of the back of the Chair, communicates motion

to the Apparatus under the Seat for adjusting the same to any required height, while the patient may be in the Chair, and working so freely in its bearings but little exertion is required. The Seat may be tilted, the front up and the back down, which more effectually prevents sliding forward when the Chair is set vertically.

The Foot-board is elevated or lowered at pleasure by a Crank.

The Head-rest is adjustable up or down by the small Crank on the back of the Chair, and back and forward by the Sliding-bar. It is fixed at any angle by the Miller-head, which operates a Screw working into a segment. It can also be placed on either side of the Chair. There are other movements, combining some dozen in all.

These Chairs are finely finished in different styles, beautifully upholstered in the most durable manner, and all the Cranks, Clamp-screws, and other trimmings Silver-plated, making it as fine a piece of furniture as can be desired. They are mounted on Rollers and are easily moved for sweeping the carpet, etc.

Rosew	ood								\$230	00
Walnut	i, C	iled or Varn	ish	ed					210	00
Extra,	for	small Table		•					10	00
"	66	Seat-tilting	A	pparatu	S				10	00
64	4 6	Silver-head	\mathbf{ed}	Nails			, .		2	00
		Arm-rest								00
"	4.	Boxing		•					5	00

O. C. WHITE'S HEAD-REST.

PATENTED MARCH 12, 1867.



This Head-rest is considered efficient in securing position and support to the patient's back and head in any direction that may practically be required in all

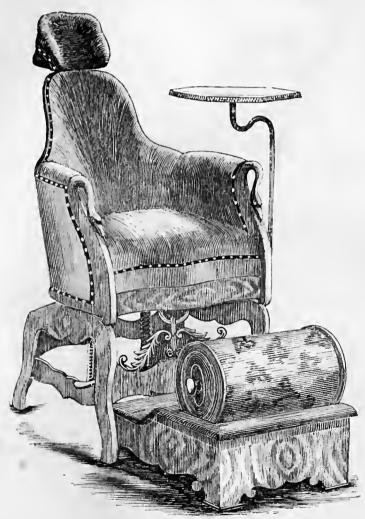
dental operations.

It has long been a desideratum in Clinics to have a wide lateral motion without disturbing the Seat upon which the patient rests. With this form, great side, back, and front, as well as up and down, motion is obtained. It is held in position by a single Thumb-screw, which is evenly turned to hold solid and firm. The principle of its movements is to maintain a relative position and support, parallel with the spinal column, in whatever position the patient may be placed. Thus the Base, a Universal-joint or Ball-and-socket, supporting a Tube in which is a sliding Rod, three-quarters of an inch in diameter, curved at its upper extremity to reach forward over the back of the Chair, terminating with a Head-rest on a Ball-and-socket Joint. The Head-rest, which is secured and clamped by a Screw at the back of the upholstered work, is made in the form of a roll on three sides, to give an easy adjustment to the head or style of dressing the hair. Across the back of the Chair a circular Rod, with bearings at either end, is held in connection with the upright Tube and sliding Rod by a Clasp, which the Thumb-screw controls, firmly securing the position in which the Head-rest may be placed. It has a movement from side to side of thirty inches, back and forward of fifteen inches, and an elevation of eighteen inches. It may be applied to any Chair, but a low back is recommended.

Its greatest advantage may be gained on a Chair made plain and with a view to universality of motion.

R. W. ARCHER'S IMPROVED DENTAL CHAIR.

JUSTUS ASK'S PATENT.



This Cut represents No. 2 of Archer's make.

No. 1. Black Walnut, upholstered with Enameled Cloth or Reps	\$51	00
No. 2. Black Walnut, upholstered with figured Plush	61	00
No. 2. Mahogany	-64	00
Plain Plush adds \$3 to No. 2.		
No. 3. Black Walnut, carved, upholstered with best Plush	90	00
No. 3. Mahogany, same style and finish	90	00
No. 4. Rosewood, carved, upholstered in the very best manner with best		
quality Plush. Seat raised by a wheel instead of a crank.	125	00
No. 4. Mahogany or Walnut, same style and finish	110	00
Table and Crane for Chair, bronzed. (See Cut.)	5	00
Table and Crane for Chair. The Table with Drawers. Crane Sil-		
ver-plated	16	00
Finished with Silver-headed Nails, \$2 extra.		

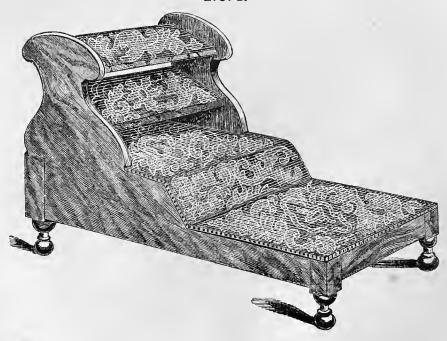
FOOT-STOOLS.

R. W. Archer's Make (see Cut of Chair), as follows:

No.	1.	Black	Walnut,	covered with	Ingrain	Carpet					\$11	00
No.	2.	Black	Walnut o	or Mahogany,	covered	with Br	russel	s Cai	rpet		13	00
No.	3.	"	"	4.6	carved,	covered	with	Velv	ret Ca	rpet	20	00
No.	4.	Rosew	ood, car	ved. covered w	rith Velv	zet Carn	et.				25	00

Our own Make, a variety of Styles and Prices.

No. 1.



Walnut Oiled, Varnished, Imitation of Rosewood and Mahogany.

DIMENSIONS.—Front, 6½ inches high; back, 20 inches high; width, 18 inches; length, 30 inches—outside measurement.

Covered with Brussels Carpet			•	•		\$12 50
Without Carpet						9 00

No. 2.



Walnut Oiled, Varnished, and Imitation of Rosewood.

DIMENSIONS.—Front, 6½ inches high; back, 25 inches high; width, 19 inches; length, 30 inches—outside measurement.

Covered with Brussels (Carpet,	with	figur	ed	Brass	Foot	Strip	s to	protec	et		
the Carpet											\$16	50
Carpeted, without Brass	Strips										13	50
Plain, without Carpet or	Brass	Strip	s.								10	00

WHITCOMB'S DENTAL "FOUNTAIN SPITTOON."

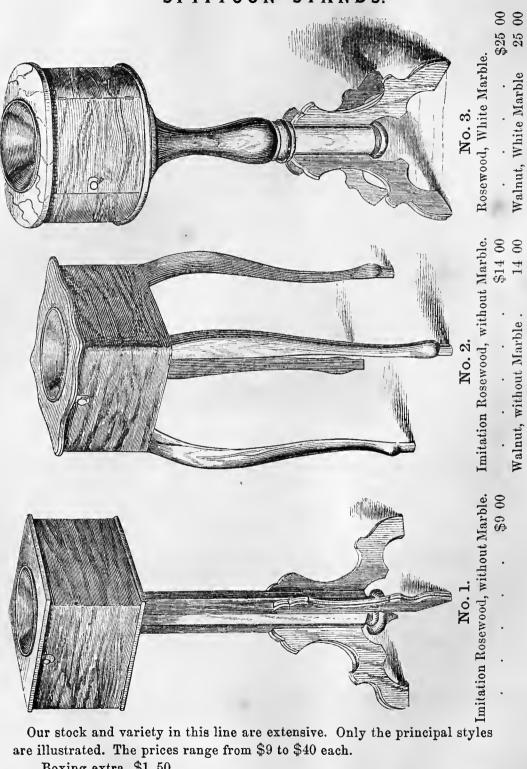


This "Fountain Spittoon" consists of a hollow iron Column, beautifully enameled in imitation of Rosewood, and at the bottom is fastened to the floor with screws. There are two leaden Pipes, the smaller for supplying the Spittoon with water, and the larger one for waste, as shown by the arrows. At the top of the Column the hollow Arm is attached by a water-tight joint turning freely around thereon; the

other end of the hollow Arm supports the Bowl or Basin. The Supply-pipe connects through an inner water-tight joint with the upright Pipe, rising from about the middle of the hollow Arm supporting the small Goblets, and is surmounted by a Swan, furnishing drinking water when turned over the Basin. Around the inner edge of the Basin a Pipe with numerous small jets connected with the upright Pipe continually rinses it, the water passing off through the hollow Arm and through a passage around and entirely independent of the Supply-joint, and thence to the Waste-pipe. On the under side of the hollow Arm, near the Column, a small Receiver collects all substances of a greater specific gravity than water, such as Gold and other valuable fillings. On the side of the iron Column a Socket is fixed, supporting the Crane and Instrument Table. All the parts, except the iron Column and Table, are either Silver-plated or Bronzed; and altogether it is a very novel and convenient piece of dental furniture.

Silver-plated	Spittoon, withou	ut Crane an	d Table			\$65	00
Bronzed	66	6 •	44			55	00
Silver-plated	Extension Cran	e, Oct. Wal	nut Table	with Dr	awers	35	00
44	"	Round	46	without	"	18	00
Japanned	6.	Oct.	6.6	with	4.6	30	00
"	. 6	Round	• 6	without	6.6	13	00
Silver-plated	Spittoon, with	Revolving	Washer,	without	Crane		
and Tab	le					85	00

SPITTOON-STANDS.



Marbles in accordance with prices on page 129.

are illustrated. The prices range from \$9 to \$40 each.

Boxing extra, \$1 50.



No. 4.

Carved Oiled	Walnut, W	hite Mar	ble,								\$38	00
46 66	" Te	ennessee '									40	00
Boxing, extr	a					-					1	50
	MARBLE	TOPS	FO?	R S	PIT	007	N-S'	TAN	DS.			
											_	
White Italian	i, Square ar	id Oval	-	•		•			е	ach	5	00
Tennessee,	4.6	"								44	10	00
Lisbon,	6.6									"	11	00
Mosaic,	6.6									144	12	50

IMITATION MARBLE TOPS FOR SPITTOON-STANDS.

Enameled Slate.

Spanish (red), Square and Oval				each	5 00
Verde-Antique (green), Square and	l Oval			. 66	5 00
Brocatelle (yellow), "	6.6			. 46	5 00

DENTISTS' STAND OR TABLE.

A NEW DESIGN OF OUR OWN MANUFACTURE.



The above Cuts are designed to represent a very convenient and beautiful piece of furniture for the Operating-room.

The Jointed Bracket, to fasten to the wall or wood-work of the room, or attached to the Operating-chair, has long been in use to bring such instruments as are required for immediate use within the reach of the Operator. In some Offices, the Bracket cannot be adjusted to advantage. This Table is designed to meet the views of those who do not use the Bracket, or who are not fully satisfied with it.

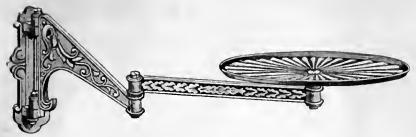
The Base and Column of No. 1 are Fine Gilt and Bronzed Castings, equal in appearance to the best French Bronzes. The Stand is 32 inches high, and mounted on casters. The Tray is made of Sheet-brass, 13 inches in diameter, with a stationary rim $\frac{3}{4}$ inch high, and revolves upon its support. It is capable of an elevation of 20 inches, and is retained at any point by a Set-screw at the top of the Column.

No. 2 is a Plain pattern, without Gilt Castings, but of the same size and description as the No. 1. No. 1 weighs 24 pounds; No. 2 weighs 16 pounds. They are easily moved by the foot or hand, and, owing to the weight of the castings, not liable to be overturned. Dentists, who have similar Stands in use, recommend them in the highest terms. Manufacturing these in large quantities, we are enabled to sell them at the following reduced prices:

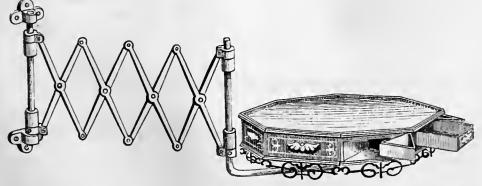
No. 1							\$27	00
No. 2							15	00

EXTENSION BRACKETS.

S. S. WHITE'S BRACKET.

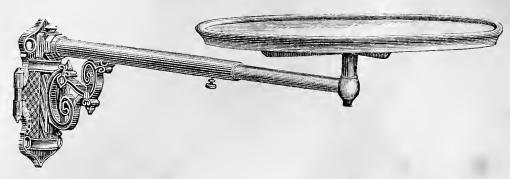


BRACKET No. 2.



No. 1. Rod sliding in a Tube, Japanned, without Table			\$10 00
No. 1. "Silver Plated "			15 00
No. 2. (as per Cut) Japanned, without Table			15 00
No. 2. "Silver Plated " ".			35 00
Octagon Tables (as per Cut) with Drawers			20 00
Plain Round Tables			3 00

ROD AND TUBE BRACKET.



Made of Cast-iron, Bronzed or Silver Plated. The extension is effected by two pieces of pipe sliding one into the other. Length extended, 36 inches.

The Table is Black Walnut, Velvet lined, and fourteen inches in diameter.

Bronzed, including Table .		•			\$12 00	
Silver Plated " .					15 00	
Bracket, without Table, less					2 00	



The Engraving represents a Cast-iron Extension Bracket, with three Joints or Arms, measuring 16 inches each in length. Being jointed, it can be placed in any direction or distance at the will of the Operator. Each Joint moves upon a Steel taper Pin, and may be tightened as it wears loose, and so kept tight for years. The Tray is made of Sheet-brass, strengthened by Ribs underneath, 12½ inches in diameter, with a stationary Rim. Length extended, 45 in. \$12 00



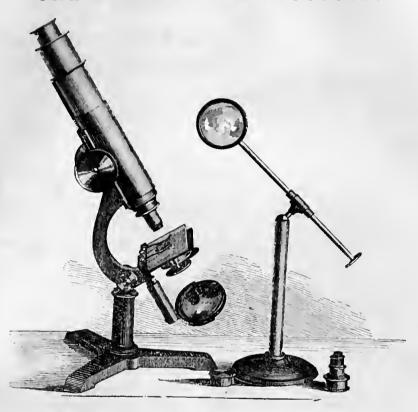


CUPS FOR EXCAVATORS, PLUGGERS, ETC.

These Cups are designed to be attached to an Extension Bracket or Table, for holding Excavators, Pluggers, etc. They are secured by means of the Ring illustrated. Made of well-seasoned Black Walnut, and highly polished.

Excavator Cup	•	•	•	\$0 50
Japanned Ring				10

THE DENTIST'S MICROSCOPE.



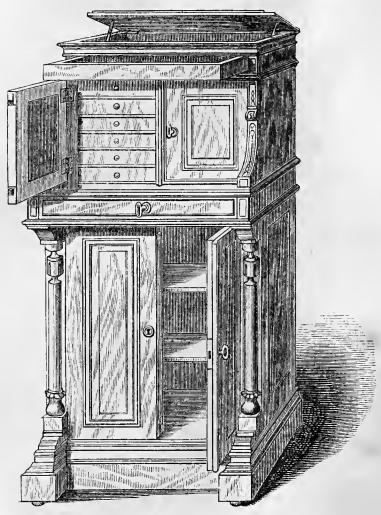
The Dentist's Microscope consists of a firm Cast-iron, lacquered Tripod Stand, upon which rests the Body and Stage, by means of a Trunnion Joint, so that the Instrument can be placed at any convenient angle for use. The focus is obtained by means of a Coarse Adjustment, consisting of a Rack and Pinion attached to the Body, and a fine Screw with a milled head affixed to the Stage, which is of glass, and furnished with all the motions in every direction. It also has Spring Dips to hold the object, as well as a Ledge for it to rest against. One Eye-piece and two Objectives are supplied with the Instrument, giving respectively a magnifying power of 125 diameters, or 15,425 times superficial, and 230 diameters, or 52,900 diameters superficial, being amply sufficient for all purposes. Two Mirrors, a Plane and a Concave one, having all the motions; a Revolvable and Removable Diaphragm, as well as a Condensing Lens on a separate Stand, with joints so arranged that it can be placed in any position, are also attached, and the whole fits into a French-polished Mahogany Case, so provided with divisions as to hold all the several parts in place, that it may travel perfectly safe.

These Instruments were designed for Dentists' use by one of the best Microscopists of this country, and are manufactured under his supervision, and are accompanied by a very full and complete pamphlet descriptive of the methods of using them

. S60 00

DENTIST'S CABINET.

No. 1.



We give above an illustration of a Dentist's Cabinet. It is made entirely of Walnut, and finished throughout in the best manner. Dimensions as follows:

Height of Case, independent of Rollers, 52 inches.

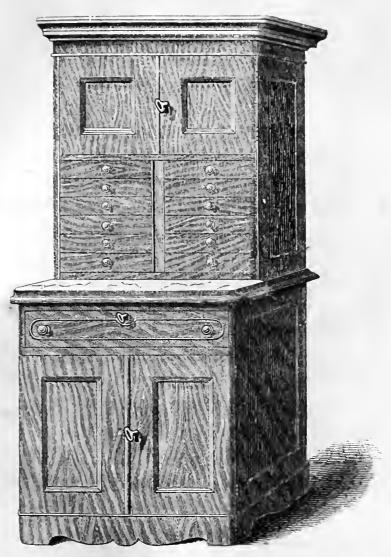
Width, inside of moulding, 24 inches.

Depth, inside of moulding, 12 inches.

The top Drawer (which has a secret fastening) is $24\frac{1}{2}$ inches long, 11 inches wide, and 2 inches deep (outside measurement). The twelve small Drawers are uniform in size, being $11\frac{1}{2}$ inches long, 10 inches wide, and 2 inches deep (outside measurement). The large or bottom Drawer occupies the full depth of the Cabinet; it is $24\frac{1}{2}$ inches long, 14 inches wide, and $2\frac{1}{2}$ inches deep (outside measurement). The Closet is 26 inches high, 25 inches wide, and $10\frac{1}{2}$ inches deep (inside measurement). \$100 00 Boxing extra.

DENTIST'S CABINET.

No. 2.



This Cabinet is made of Walnut, Oiled, and finished in the best manner.

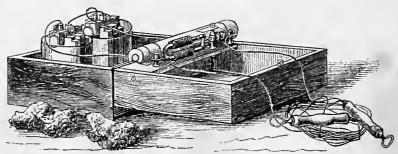
Outside measurement of entire Case as follows: height, 62 inches; width, 26 inches; depth of lower half, 17 inches; depth of upper half, 12 inches. With White Marble Table-top.

Large Drawer, 24 inches long, $15\frac{1}{2}$ inches wide, $4\frac{1}{2}$ inches deep (outside measurement); this Drawer has a sliding Shelf in the form of a Tray, hiding Forceps, etc. from view, and answering instead of a table when the Drawer is pulled out. Ten of the small Drawers measure $11\frac{3}{4}$ inches long, $11\frac{1}{4}$ inches wide, $1\frac{1}{2}$ inch deep. The two bottom small Drawers, same length and width, 3 inches deep (outside measure-

ment). These twelve Drawers are locked Bolt inside the top Closet. Dimensions of	•	_						
$12\frac{1}{2}$ inches high, $11\frac{1}{4}$ inches deep (inside r	neasu	remer	nt).	The	botto	m		
Closet, 24 inches wide, 20 inches high, 15 in ment). Top of Cabinet hinged on similar to		-	•				\$75	00
Drawers lined with Silk Finish Cotton Velvet	•	•		•	•		90	00
A similar Cabinet, Walnut, Varnished, of R. W.					•		50	
Drawers lined with Silk Finish Cotton Velvet	•	•	•	•	•	•	65	00
R. W. Archer's New Cabinet, No. 3, Oil Finish								
Drawers lined with Silk Finish Cotton Velvet	•	•	•	•	•	•	75	00
R. W. Archer's No. 5 Cabinet, Oil Finished								00
Drawers lined with Silk Finish Cotton Velvet							100	00

THE FIFTY-DROP GALVANIC BATTERY.

INVENTED BY DR. S. B. SMITH.



The superiority claimed for this Instrument over others, by the inventor, is that it has a direct current, and the Zincs never require cleaning.

ARKANSAS STONES.

A SUPERIOR ARTICLE.

A large assortment of all sizes and descriptions, selected and cut expressly for our sales.

Knife-edge Slips,	for	finishing	fillings							\$0	75
Pointed Slips	66	66	66					•			62
Square Lengths									50	to 1	00
Small Flat Oblon	g Pi	eces, for	sharpen	$_{ m ing}$	Instru	umer	its.		25	to 1	00
The same, in Wal	lnut	Boxes, v	ery conv	reni	ient		•				80
Large Flat Oblon	o Pi	eces, for	sharnen	ing	Instru	ımer	its.	. 1	00	to 5	00

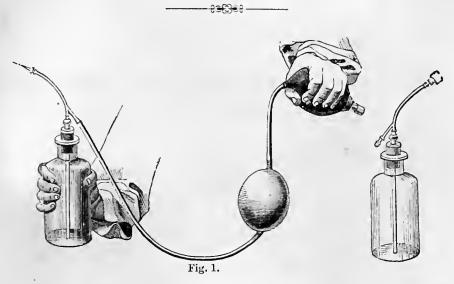
APPARATUS

FOR

PRODUCING LOCAL ANÆSTHESIA

BY NARCOTIC SPRAY.

APPLICABLE TO GENERAL AND DENTAL SURGERY.



The Apparatus consists of a Bottle to contain the Ether or other fluid to be used; through a perforated cork a double Tube is passed, one extremity of the inner part of which goes to the bottom of the Bottle; above the cork a Tube, connected with the Bellows, pierces the outer part of the double Tube, and communicates by a small aperture at the inner end of the cork with the interior of the Bottle. The inner Tube for delivering the Ether runs upward to the extremity of the outer Tube.

When the Bellows are worked a double current of air is produced; one current descending and pressing upon the Ether, forcing it along the inner Tube, and the other ascending through the outer Tube and playing upon the column of Ether as it passes from the inner Tube.

Put the Ether into the Bottle, nearly filling it, then insert the Tube with the cork firmly, and fit the Nozzle to give the jet desired; the Bulb on the extremity of the rubber tubing being now grasped in the hand and rapidly used as a Hand-bellows—

the other Bulb acting as a reservoir—keeps up a steady pressure upon the Ether and produces a continuous jet.

The small wires, called Stylets, are used to graduate the Spray, which is made finer or heavier by the use of the different sizes.

Remove the Nozzle and insert the Stylet in the small Tube. The hook on one end of the wires is to prevent their slipping into the Tube.

Two Nozzles accompany the Instrument; the straight one for producing a single jet, and the double curved one for operating on both sides of a molar tooth.

No more Spray should be thrown on the part to be affected than will evaporate instantly. Therefore, adjust the Regulator at the end of the liquid-bearing Tube carefully to furnish as much liquid as will be thoroughly atomized, and no more.

The ordinary Ether of the shops will not answer for producing local anæsthesia, nor should the concentrated be used for producing general anæsthesia by inhalation.

Should the Tubes become clogged, they can be freed by applying the mouth to the larger end and sucking, or by the use of the fine wire which accompanies the Instrument. Take a short hold of the wire with a pair of pliers and force it gently through the Tube. If the point of the Tube becomes obstructed by ice, it may be cleared quickly by touching it with the tongue.

If the bulb of a thermometer be placed in the Spray, the mercury should be brought six degrees below zero in thirty seconds, and snow should form on the bulb of the thermometer. Water in a $\frac{1}{4}$ inch test-tube held in the Spray should be frozen within two minutes, and when the Spray is directed on the back of the hand, the skin should be rendered insensible to a pinch, and should suddenly blanch in the same period of time, or even in one minute.

Hold the atomizing end of the Tubes from three-quarters of an inch to one and a half inches from the part to be frozen, in such a position that the Spray will be thrown squarely upon it, and operate the Bellows-bulb (the end one) briskly until the part is white, when it will be insensible. This will be in a few seconds with Rhigolene, and in about one minute with concentrated Sulphuric Ether.

In operating for teeth extraction, most Operators throw the Spray first on the gum and then upon the tooth and gum. Others cover the gum and other teeth with a non-conductor and throw the Spray directly upon the tooth to be removed, taking the precaution to cover the nerve, if exposed, with wax or cotton. By

this method some pain will be experienced during the first seconds of application, but it will speedily pass away, and when the gum becomes white, which should be in from ten to fifteen seconds after the first application of the Spray, the tooth may be removed.

For operations on the teeth use the double jet, directing the Spray on each side of the gum, and deeply. In the lower jaw it is advisable to place a little cotton wool between the cheek and the gum, and beneath the tongue and the gum, so as to absorb the Ether.

When lower molars are to be extracted, it is better and often necessary, to close the salivary ducts to prevent interference of a too copious flow of saliva.

For painless removal of dental pulp, the exposed nerve should be covered with a non-conductor and the Spray directed as for extraction.

For minor surgical operations, after the first incision simply through the skin, when it has been rendered insensible, the Spray may be directed into the wound, when a much deeper anæsthesia will be produced. The Spray may be directed for any length of time that may be required for any operation.

Apparatus of Ge	rman S	Silver, S	Silver	Pla	ted, v	rith t	wo N	ozzles	of		
Coin Silver										\$10	00
With Foot-bellow	rs Attac	chment							•	14	50
The same Appara	itus, wi	th brass	Tub	es an	d Noz	zles,	Silve	r Plat	ed,		
complete,		•						•	•	7	00
With Foot-bellov	vs Atta	chment								11	50

The Apparatus (Fig. 2) as improved by Dr. James E. Welch (see article by Dr. Welch in January number of the Dental Cosmos, 1867), with Silver-plated Lip and Cheek Holder attached, enabling the operator to dispense with the assistance of another person,—has three Nozzles. 8 oz. Cut Glass Bottle.

Complete				•	•	٠		•	\$12	00
With Foot	-he	llo:	UC Q	Att	a cl	h m	ent.		16	50

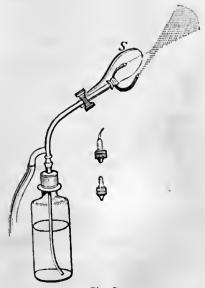


Fig. 2.



In addition to the preceding, a less expensive Instrument is offered, with but one permanent Bifurcated Nozzle, as illustrated by Cut No. 4. The Tube is of German Silver, Silver Plated. Bulbs of the best quality.



Fig. 4.

Complaints have been made that some of the Instruments in the market purporting to be Richardson's do not perform well. This is believed to be due to a want of sufficient care in manufacturing and regulating them. Every Instrument manufactured by us is carefully tested before it is offered for sale.

These Instruments are used successfully for painless extraction of teeth, removal of dental pulp, diminishing sensibility of dentine while excavating, and for small

surgical operations on the hands, feet, etc.

THE VARIOUS APPARATUSES MANUFACTURED BY COD-MAN & SHURTLEFF.

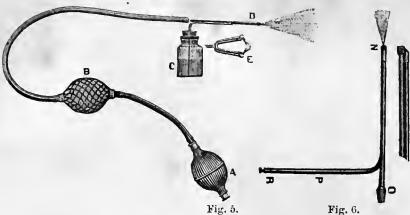


Fig. 5 represents Tube for use for teeth of either jaw.

This form is curved upward for superior teeth.

W and Z. The Bifurcated portion of the Tube, designed to deliver Spray on both sides of the gum at the same moment.

X and A. Conical end of air Tube over which the rubber Tube of Bulbs is passed when used.

Y and B. Regulator to control the amount of liquid.

This form is curved downward for inferior teeth.

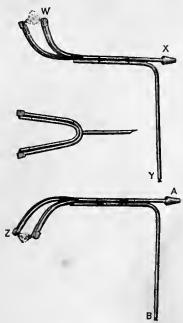
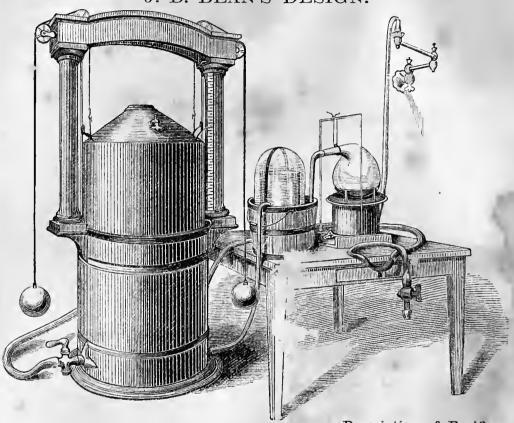


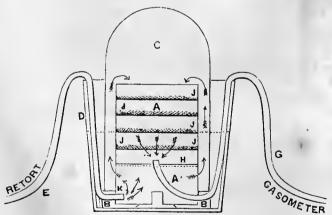
Fig. 7.

Apparatus with one Bifurcated double jet Tube as represented,	Fig	. 5	\$6	00
With the two curved double jet Tubes instead of the straight,	"	7	9	00
Double jet Tube			3	00
Apparatus with single jet Tubes, for use of Surgeons, Fig. 6			5	00
Single jet Tube			2	00
Rhigolene, in 12 oz. bottles			1	00
" 6 bottles			5	00
Concentrated Sulphuric Ether, warranted perfectly pure, in pour	nd 1	bottles	2	00

NITROUS OXIDE GAS APPARATUS.

J. B. BEAN'S DESIGN.





Description of Purifier.

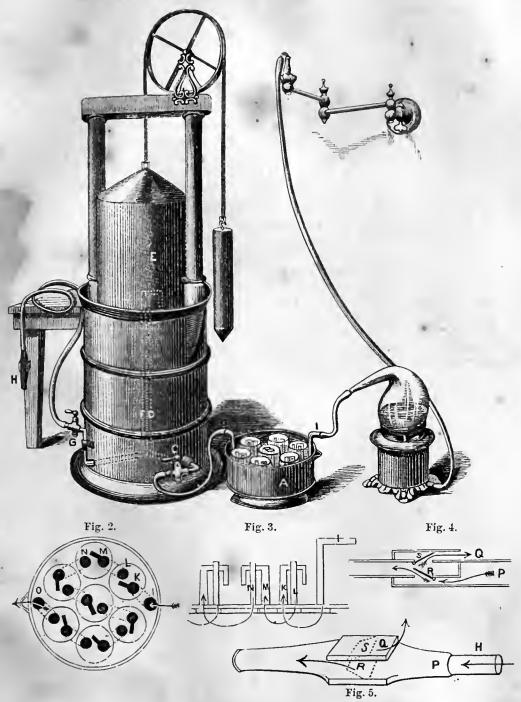
A is a Copper Cylinder, divided into two chambers by a Disk H, two-thirds of the distance from the top. The Disk is securely fixed in its place and is gas-tight. The Cylinder is pierced just below the Disk by a number of small holes. B is a wood Stand on which the Cylinder firmly sets. C, a glass Vase covering the Cylinder. K, a short Pipe, to which the conducting Tube is attached, curving under the Vase, and passing into the

lower chamber and connecting with the Retort by a rubber Tube E. A similar pipe communicates with the upper chamber, and is connected with the Gasometer by Tube G. The Cylinder is loosely fitted with four Wire-cloth Disks J, placed equidistant, on which is spread Lime. The whole Apparatus sets in a vessel D (a common water-pail will answer), which should be about half full of water.

The Gas passes from the Retort by Tube E into the lower chamber, is partly washed by the water, passes out at the small holes into the inside of the Vase, up into the top of the Cylinder, down through the Lime into the Pipe A, and to the Gasometer by Tube G, as indicated by the arrows.

NITROUS OXIDE GAS APPARATUS.

MANUFACTURED FOR S. S. WHITE.



The Cut represents a full view of a complete Nitrous Oxide Gas Apparatus, with Retort, Purifier, and Inhaler. Capacity 40 gallons.

The Purifier A contains 7 inverted glass Tumblers B, which stand upon a per-

forated metal Plate, placed about midway in the vessel. On this Plate, Tubes

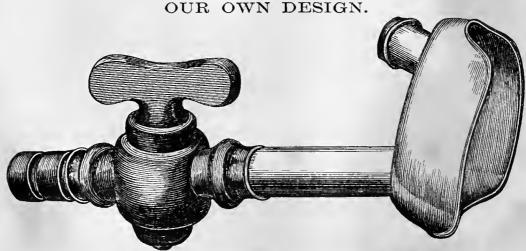
K, L, M, N are soldered, so that two of them are under each Tumbler.

The Purifier is filled with the required solution a little above the opening of the Tubes K, M. The Gas from the Retort entering Tube I, passes through Tube K, into the water contained under the first Tumbler; rising to the top of the Tumbler, it passes into the Tube L, from thence consecutively under the other 6 Tumblers, being washed 7 times. Thence entering by connecting Tube O, through Pipe D (which is provided with a Stop-cock C), it passes into the Holder through the Limewater with which it is filled, and thence into the Receiver E. The Gas is now ready for use, and when Stop-cock G is opened, is drawn from the Holder through the Tube F. On the top of the Apparatus is placed a large Wheel, over which passes the Strap that holds the Balance-weight. The introduction of the Gas causes the Receiver to rise, and, when the Gas is used, to fall, the pressure being uniform. The Inhaler or Mouth-piece H (see Figs. 4 and 5) is so constructed that the weakest lungs can inhale or exhale through it without difficulty. Its mechanical construction is so simple and strong, that it does not easily get out of order. P is the inlet end which is connected with the Conducting Tube. By taking the opposite end in the mouth and inhaling the Gas, it opens Valve R, and closes Valve S, and in exhaling it shuts Valve R, and passes out of Valve S. These Valves are well protected, the upper one by a Cover Q, the other by being inclosed within the Inhaler. The size of the Gum Valves are such that the strongest lungs as well as the weakest appreciate no interference more than in ordinary respiration. The Apparatus is made in a substantial manner. The process of manufacturing the Gas is simple and expeditious.

Complete Apparatus, 40 gallons capacity \$70 00 50 75 00 Boxing, additional.

Nitrous Oxide Apparatus of other Manufacturers, of varying capacity, quality, and price, will be supplied to order.

NITROUS OXIDE GAS INHALER.



The Face-piece, which is designed to cover both mouth and nostrils, is made of Metal, Silver Plated; the Stop-cock is of Hard Rubber. Two Valves-one for inhaling and the other for exhaling-are affixed to the bottom of the Mouth-piece, sufficiently large to allow natural respiration. Entire length of the Instrument nine inches.

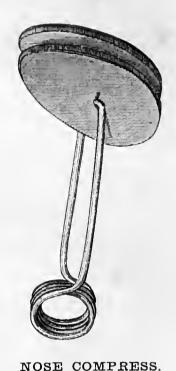
	n a neat Box							\$8 0	0
Ordinary	Hard Rubber	Inhaler						2 0	0
66	66	6.6	with	Valve	g.			4 (00

GOODWILLIE'S PATENT INHALER,

FOR NITROUS OXIDE GAS, ETHER, CHLORO-FORM, ETC.



DESCRIPTION OF INHALER. - A. Fancet, containing the Valves, and revolving quarter of a circle. B. Fresh air Valve. C. Face-piece. D. Inhalation Valve. E. Exhalation Valve.



Introduced by Dr. S. S. Nones.

Convenient for the administering of Gas, where the Inhaler used is without a Face-piece. \$0 50

As the Face-piece covers both the mouth and nostrils, the patient may breathe through either, and by the arrangement of the Valves the breath is thrown off by the exhalation Valve (E), and danger of asphyxia avoided. It is made of Hard Rubber, nicely finished, with two Face-pieces of different sizes.

Complete . \$10 00

FUSED NITRATE OF AMMONIA.

Manufactured expressly for our sales Best quality. Put up for convenience in Wood Boxes, containing 5 and 10 pounds each.

\$0 70 In original packages, Box included per pound

S. R. DIVINE'S GRANULATED, FUSED, AND CRYSTALLIZED

NITRATE OF AMMONIA

Is put up in Boxes containing 5 and 10 pounds each, at the following prices:															
By For	the single 20 poun 50 " r shipmer for extra.	ds		"	50 100			Cases	wh	ich w		er pou		\$0	75 70 65
RUBBER TUBING.															
1 i	nch, insid	de mea	sure									per f	oot		20
38	"														22
	4.6	4 -										••			27
$\frac{1}{2}$ $\frac{5}{8}$	••	••				•					•	. • •			32
$\frac{3}{4}$	4.6	٠.			•	•				•		**			38
1	6.	4.6				•	•	•	٠	٠	•	••			45
		F	RUB	BE	R	G A	S	3 A G	S,	0 V	AL				
5	Gallons													5	00
6	Ganons	•	•	•	•	•	•	•	•	•	•	•	•	_	50
7	6.	•	•	•	•	•	•	•	•	•	•	•	•		50
8	6.6	•	•	•	•	•	•	•	•	•	•	•	•		25
9	6.	·	•		•		•				•	•	•		00
10	4.6						Ċ					•		10	
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	by 24 inc	ches	•	•	•					•					50
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	by 30	••	•	•					•	•	•			10	
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Tir	cture of													1	00
		Catech					•								75
		White													60
	" of	Iodine.	1 02	. G1	ass-st	opper	ed B	ottles	•						35

Creasote. A very superior article.	1 oz.	Glass-s	stoppere	d Bot	tles			\$0 35
Carbolic Acid.	1 oz		4.4	6.0		•		50
Chromie Acid.	1 oz		4.6	6.0				60
Saturated Solut. Iodine in Creasote.	1 oz.		4.4	6.0				50
" " Glycerin.	1 oz.							40
Carbolie Acid and Glycerin.	2 oz.	Bottles						40
Styptie Colloid.	2 oz.	"						60
Glycerin. 8 oz. Bottles								75
Mercury, Re-distilled. Carefully pro	epare	d for ma	king Aı	nalga	m, ar	nd wa	r-	
ranted pure. Put up in quarter-po	ound :	Bottles						50
Nerve-paste. Arsenic and Creasot	e, car	refully p	prepare	d, in	Glas	s-sto	p-	
pered Bottles, with directions for								50
Chlorate of Potassa. Pulverized, in	8 oz.	Bottles						75
Isinglass Plaster. A neat and unirri				Adhes	ive I	laste	er.	
								75
•								
PREPARAT	7 7 0	NS () F T	R O	N			
		.,,		11 0				
Monsel's Solution, Persulphate of Ire								25
" Powder, Subsulphate "		" "	4.6					25
Solution Perchloride of Iron. Per o	z. Bo	ttle .						25
Sesquichloride of Iron. (Crystallized	l.) P	er oz. B	ottle					50
The above solutions may be applied	,			clear	r, or	dilute	ed	
with water. The solid preparatio		_						
Monsel's Powder, being more con-				•				
PHÉNC	L	SOD	QUE					
The attention of the Dental Profess	ion is	asked t	to this	new I	Immo	ostati	C.	
Antiseptic, and Disinfecting agen							•	
valuable auxiliary in the Dentist's								
an Astringent and Styptic applica								
extraction, and prevent subsequen						_		
oz. Bottles, with directions for use		chess of	ine gu	ша.	Luci	ир іп	O	1 00
oz. Bottles, with directions for use	•		•	•	•	•	•	1 00
тоотн	D	ח אגי ח	FPC					
10011	ı r	ע אא ט	ENS	•				
S. S. White's Tooth Powder, No. 1					per	pour	ıd	1 50
2					. '			75
J. D. White's Dentine						4 6		1 75
Objections having been made by man	y of	our Cust	omers t	o the	purc	hase	of	
Tooth Powder, the constituents of	-				~			
have prepared Dentifrices accordi								
ingredients warranted pure:			-0		,			
O								

No. 1.

Orris Root (white), Cuttle-fish Bone (very fine). Bicarbonate of Soda (pure), Color, Turkey Myrrh, White Sugar, Precipitated Chalk (English), Perfume.

No. 2.

Prepared Oyster Shell, White Sugar, Cinchona Bark, Powdered Myrrh, Orris Root, Ground Cinnamon,
Dried Carbonate of Soda,
Powdered Castile Soap,
Oil of Lemon,
Color.

MOUTH WASHES.

Astringent Wash, in 3 oz. Bottles, for Office sale	per dozen	\$3 75
" in 16 oz. Bottles, for Office use.	per bottle	1 25
Saponaceous Toilet Wash, in 4 oz. Bottles, for Office sale	per dozen	3 75

ASTRINGENT WASH.—An agreeable and useful Wash, suitable for the Office and for sale to Patients, combining anodyne, astringent, disinfectant, detergent, tonic and styptic properties.

It is composed of Potass. Chlor., Tinct. Kramer., Tinct. Myrrh, Tinct. Opii Camph., Tinct. Cinch. Co., Tinct. Quillai, Ol. Rosa.

It may be used with or without the brush, in its full strength or diluted with water, to cleanse the teeth or as a wash for the mouth.

It is put up in neat 3 oz. Bottles, wrapped and tied with inside and outside labels, without the manufacturer's name.

The satisfaction with which the Astringent Wash has been received has induced an effort to meet a very general demand for a Wash not so decidedly astringent in its character, and therefore more agreeable for use, where no special diseased conditions exist requiring treatment. We have, therefore, prepared a Saponaceous Toilet Wash intended to meet this demand, composed of Castile Soap, Glycerin, Spirits of Lavender Comp., Tincture Cinchona Comp., Cologne Water. A few drops upon the brush is sufficient.

These Mouth Washes are composed of pure and fresh ingredients, and neatly put up and labeled without the manufacturer's name. Dentists may retail them to their patients with a guarantee of reliability.

DR. I. W. LYON'S

TOOTH TABLETS.

A NEW AND IMPROVED FORM OF TOOTH POWDER.

The advantages of this form are, that it is portable, not liable to scatter or be wasted, and therefore very convenient in traveling. There is no occasion for dipping the brush into the box, thereby soiling that which is not used, but enough for one brushing is taken from the box and put into the mouth; thus, any number of persons may use from the same box with perfect neatness and propriety. It has received the hearty approval of many leading Dentists, to whom the formula has been exhibited. The following Certificates are submitted to those of the Profession who have not had an opportunity of testing it.

This is to certify that being personally acquainted with I. W. Lyon, D.D.S., of New York City, and having been informed by him of the precise ingredients composing the Dentifrice known as "Dr. I. W. Lyon's Tooth Tablets," and having ourselves used the same, we do unhesitatingly commend it to the public as the best and most convenient Dentifrice now extant:

D. H. Goodwillie,	
G. A. MILLS,	
W. W. ALLPORT,	
CHAUNCEY P. FITCH	,
W. H. ALLEN,	•
T A STRON	

ALFRED W. ALLEN
WM. A. Bronson,
B. W. FRANKLIN,
R. M. STREETER,
I. J. WETHERBEE,

Per dozen Boxes (120 Tablets in each Box) Retails at 50 cents per Box. \$4 00

SUPERIOR TEETH BRUSHES.

MANUFACTURED EXPRESSLY FOR THE DENTAL TRADE.

We offer to the Profession a large variety of three, four, and five row Brushes of the very best quality of material and workmanship. For convenience in ordering, we have had them put up in assorted dozens—each Brush differing in style. The Brushes being numbered on the Handles, enables the Dentist or Dealer to select such styles as he may wish to order.

Three-	row	Brushes				per dozen	\$3 00
Four	6.6	4.6				- "	4 00
Five	66	+ 6				66	5 00

In addition to the above, an extensive stock of Imported Brushes, three, four, and five Rows, at prices ranging from 75 cents to \$5 per dozen.



OTHER ARTICLES,

NOT ILLUSTRATED OR CLASSIFIED IN THIS DEPARTMENT,

WILL BE FOUND IN THE

MISCELLANEOUS DEPARTMENT.

State of the state

DECILARESS TOESTES

INC. TO RESIDE BRIDGING LOSS.

MECHANICAL DENTISTRY.

100 Technica (11 / 20) - 200

AND STREET, SQUARE, SQ

WALLST FORM THE TAY TAY IN

MECHANICAL DENTISTRY.

FURNACES.

9 - (3) - 3 -



No. 1, for two Muffles.

No. 1, for one Muffle.

These Furnaces are oval in form, with hinged Doors, the centre Sections cased with Sheet-iron, taking Muffles 12 inches long by $3\frac{3}{4}$ inches wide—inside measurement. Outside measurement of Furnaces, 43 and 34 inches high, 21 inches wide, and 16 inches deep.

No. 1.	For two N	luffles					. ,			\$25	00
No. 1.	66 66	with	4	Muffles,	6	Slides,	and	half-	peck		
	Fire-clay	, packed in	C	ask for sl	nip	ping				29	50
									(1	53 \	

No. 1. F	or o	ne N	Iuffle	,								\$19	00
No. 1.	66	66		wit	h 4	Muffle	es, 6	Slid	es, a	nd ha	lf-peck		
I	Fire-	clay	, pac	ked i	in Cas	sk for	ship	ping				23	00
No. 2. A		-	_				_	_					
					_						of Fur-		
1	aace.	. 33	inch	es hi	gh. 20	0 inch	es wi	ide. a	nd 1	4 inche	es deep.	16	00
No. 2. I											-		
						sk for						19	50
Muffles,		•	, .				r			į	each		63
	66									·	"		50
66	6.6	_		•	Ċ		·			•	66		38
Slides	66	•	•	•						•	"		10
bildes	66	_	•	•	•	•	•	•	•	•			
		_	•	•	•	•	٠	•	•	•			.09
6.6	4.6	3	•	•						•			08

Note.—These are Philadelphia prices, freight and expenses added when sold at other Depots.

QUEEN'S PORTABLE JEWELERS' AND DENTISTS' FORGES.



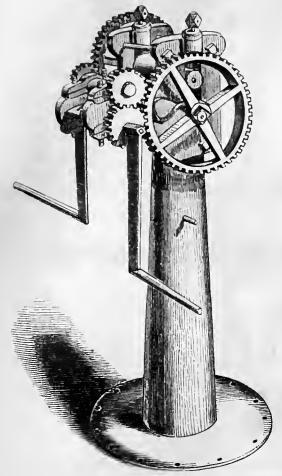
Having a Furnace arrangement consisting of a false bottom to the Fire-place, with a Grate in the centre, and an Iron Bowl between the two Floors to catch and retain spilled metals; also, Boxes about the Grate to sustain the coal around the Crucible or Melting-pot. These Forges possess great advantages over others, having two Slides, by which the Forge can be closely shut up, or arranged in any position necessary to prevent interference to the fire by wind or rain when in use out of doors, or for safety and convenience in-doors; when open, they are entirely out of the way. All the fumes from charcoal and acids are conducted through the Smoke-pipe. Another advantage is, that the Bellows is not liable to injury either from fire or water.

No. 0, w	eight	, 105 p	ounds					\$28 00
No. A,		145	6.6	•				34 00
No. 1,		230						44 00
No. $1\frac{1}{2}$,	4.6	280	66					54 00
No. 2,	66	385	6.6					65 00

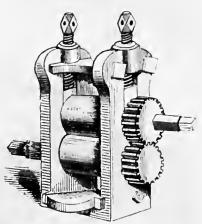
The No. 0 Forges are made without Slides for closing, and without Water-troughs.

LODGE'S ROLLING MILLS.

MANUFACTURED IN PHILADELPHIA.



GEARED MILL.



 $3, 3\frac{1}{2}$, and 4 inch Rolls.

\$105 Mill.

Sold	at Ma	anufactu	irer's	price	es.	Varr	anted	l for o	ne ye	ear.				
3	inch,	Plain											\$45	00
3	66	Geared											55	00
$3\frac{1}{2}$	66	Plain											55	00
$3\frac{1}{2}$		Geared											60	00
4	44	Plain											60	00
4	"	Geared											70	00
4	"	Double	Gear	ed, or	n Iron	a Sta	nd.						105	00
5	6.6	Extra G	eare	d, Mo	unted	on l	lron	Table	(Cut	on ne	xt pa	ge)	150	00
Ir	on Sta	ands											7	50
Bo	xing,	extra.												
A	_:			3 - 4 -										

Any size or pattern made to order.

Note.—These are Philadelphia prices, freight and expenses added when sold at other Depots.

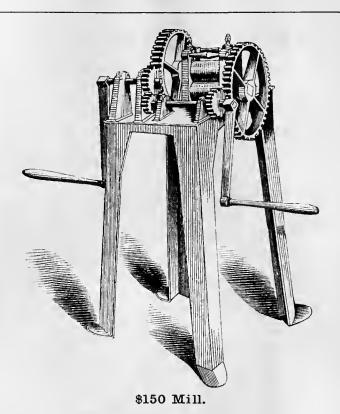


TABLE BLOW-PIPE.

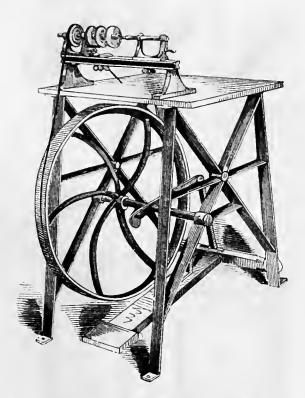


Note.—As various lengths of Tubing are used, and different kinds of Lamps, the prices named do not include these articles.

LATHES.

LODGE'S LATHE.

STRONG IRON FRAME.

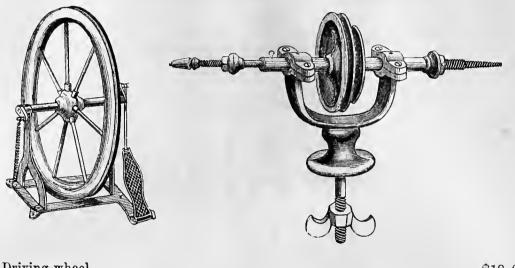


NEW LATHE.—DRIVING-WHEEL DETACHED.

INVENTED BY DR. A. LAWRENCE.

We have had a new set of Patterns made for this Lathe, which are double the thickness of the previous ones, and give much greater weight and strength to the Platform, Supports, and Shaft. The Apparatus is also decidedly improved in every

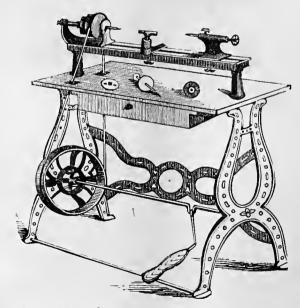
respect, and we can confidently recommend it as a very desirable Lathe for the Dentist.



Driving-wheel .							\$18 00
Head (Brass) .							
Cord and Coupling							
Complete							
TI 1 - C T	1						

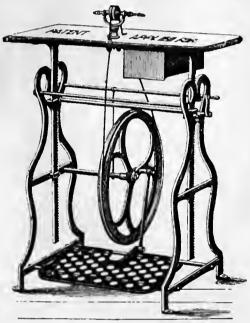
Head of Iron is \$3 less in price.

AMATEUR LATHE.



35 00

GRISWOLD'S EMPIRE LATHE.



. \$40 00

THE UNITED STATES LATHE.



This Lathe has a Movable Column and Table, and is capable of being elevated 8 inches, to accommodate the Operator in either a sitting or standing posture.

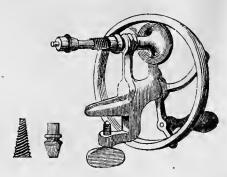
This Lathe is recommended without hesitation.

It can be packed in a box 16 inches square,
and can be set up in a few minutes.

Lathe,	Short Spindle .				22	00
"	with Long Spindle	(see	Cut)		23	00

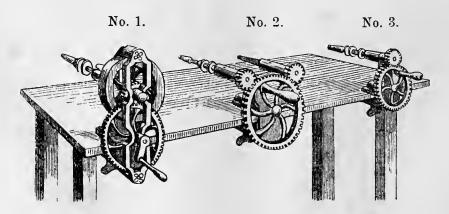
NOISELESS HAND LATHE.

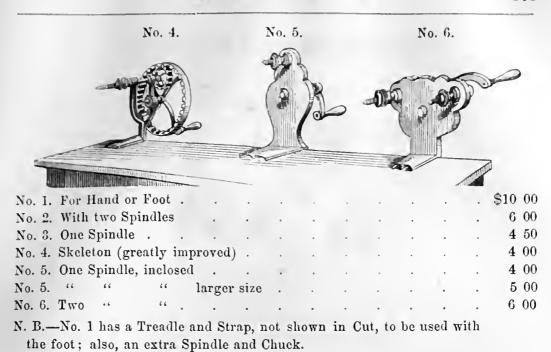
H. COY'S PATENT. OCTOBER 2, 1866.



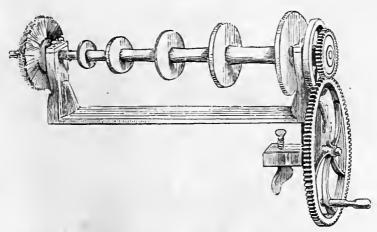
Note.—The Mandril and Axle-screw of the "Extra" are of Steel, and are coned and ground in. Rim of Driving-wheel turned all over. Table-face of Clamp hollowed and float-cut, and the end of the Clamp-screw countersunk, making it very firm on the table with light pressure. The japanning and polish are also extra fine. Ivory Handle.

TABLE LATHES.





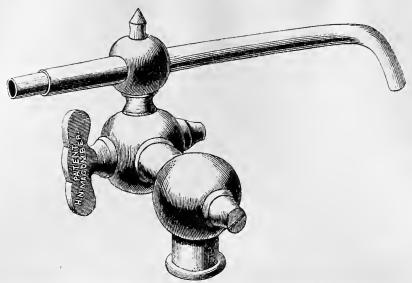
PARALLEL LATHE.



This Lathe is capable of running five Stones, a Brush, and a Drill at the same time. Outline size, 10 by 16 inches; weight, 8 pounds; Frame of Cast-iron, with Steel Spindle and Axles. It can be easily adjusted to the Table or Work-bench. The Collars that retain the Grindstones are made of Wood, and the lengths are proportioned according to the requirements of the hand. Corundum Wheels included 10 50

SPERM OIL.

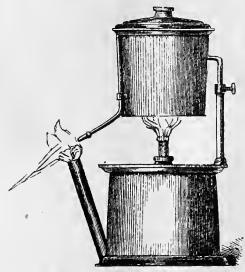
MACOMBER'S GAS BLOW-PIPE.



This is an Appliance designed to be attached to a Gas-pipe, for using Gas instead of Oil or Alcohol. The Tube is double, or rather a Tube inclosing a Tube, the atmospheric air being driven through the centre Tube, adding force and giving a cylindrical form to the flame

\$5 00

SELF-ACTING BLOW-PIPE.



The Lamp is made of Tin, japanned, and the Boiler of Brass, each holding half a pint of Alcohol. It has a Set-screw on the Upright, allowing the Boiler to be moved up or down; also two Nozzles to be attached to the Pipe, whereby the flame can be regulated. It is perfectly safe, as, in addition to being substantially made, it has a Safety-valve in the top of Boiler. For cheapness and utility it has no equal

0 00

N. B.—One of the Nozzles will be found screwed on to the top of the Safety-valve

MOUTH BLOW-PIPES.

Brass,	our own	make,	with C	liamb	er and	Sere	w-joint				\$1 25
4.6	4.6	4.6	with B	ulb							1 25
4 6	4.4	66	heavy,	with	mouth	end	tinned	11 incl	ı .		60
6.6	6.6	6.6	6.6	4.6		6 6	6.6	13 "			65
6.0	4.6	s 6	4.4	64		4.6	6.6	15 "			70
4.4	German,	9 incl	h .								18
4.6	6.6	10 "									20
4.4	66	11 "									22
6.6	44	12 "									25
66	4.6	13 "									30

IMPROVED SOLDERING PAN OR FURNACE.

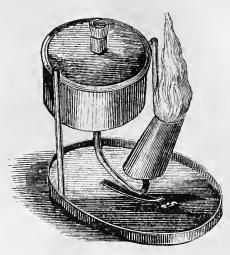
MADE OF RUSSIA IRON.



Dimensions: height, 5 inches; diameter, $6\frac{1}{2}$ inches. A Cover with movable Lid, to put on while heating up the case before soldering; also placed on after soldering, with the Lid and Door closed to prevent rapid cooling; Handle attached by a pivot to allow the Furnace to revolve.

SOLDERING LAMP.

FRANKLIN'S SAFETY.

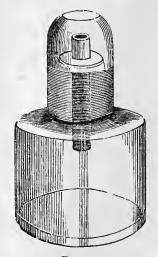


This seems to be a perfectly safe Lamp, the body of Alcohol being kept some distance from the Wick. (See Miscellaneous.) \$1 00

GLASS SPIRIT LAMPS.



Oval.



Square.

Oval,	4 inches	s high,	3	inches	wide					75
Squar	e "	"	$2\frac{1}{2}$	66	"					75
66	3 "	4.4	2	4.6	66					50

GAS STOVE.



For heating up Vulcanizers, melting Zinc or L	ead,	and for	general	Labor	a -		
tory purposes						\$2	50
With Sheet-iron Cover (as shown in Cut)						3	25
Heavy Cast-iron Ladle with detached Handle						1	00

GOLD, SILVER, AND PLATINUM,

PLATE, WIRE, ETC.

(See page 28.)

ALUMINIUM PLATE

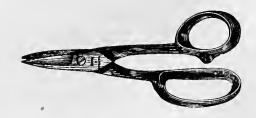
AS A BASE FOR ARTIFICIAL TEETH.

The	cost	of	Alumi	nium	will	proba	bly	be	reduc	ed.	Preser	nt	price	per	
our	ace														3 75

PATTERN METAL.

This article, which is composed of Lead and Tin (the surface being tin), is equal to pure metal for the above-named purpose . per pound \$0 50

PLATE SHEARS.



ROMMETIN'S (Successor to FROID) PLATE FILES.

Direct Importation.

Flat, H	alf-soft,	resembling	Stubs	' Ba	astard,	3	inch		each	18
"	"	"		"		$3\frac{1}{2}$	66		6.6	18
46	66	4.6		"		4	66		66	22
4.6	"	6.6		44		41/2	"		46	25
46	"			66		5	66		66	30
66	Soft,	44	Stubs	' Sı	nooth,	3	66		"	23
46	"	6.6		44		$3\frac{1}{2}$	66		66	23
46	4.6	46		44		4	66		"	27
٤.	66	6.6		"		41/2	66		66	32
"	4.6	44				5	66		66	35
Half-ro	und, Ha	lf-soft or Ba	stard.	41	inch				44	20
		66	"	5	66				66	22
"		"	66	6	44				"	30
"	Sof	ft or Smooth	1,	$4\frac{1}{2}$					"	25
"	6.6			5	6.6				44	27
44	66	44		6	66				44	35
Round,	Half-so	ft or Bastar	nch	•				"	18	
"	66	`44	5	"					66	22
66	66		6	"					4.6	30
Triang	le "		4	66						20
"	4.6	4.6	5	"					66	24
"	"	66	6	٤.					"	32
6.6	Soft or	Smooth, 2	to 3						"	20

STUBS' PLATE FILES.

Direct Importation.

Half-rou	nud Ba	stard.	4 i	nch						each	\$0 32
44	ina, ma		41	44						4.4	35
			5	6.						4.4	38
4.6		6.6	51	6.6							44
			6	6.6						4.6	50
. 6	Sm	nooth,	4	44						6.6	35
			5	44						4.6	44
• •		4.6	6	"						. 6	56
• 6	Ba	stard,	3 to	31	inc	h .				4.6	25
		nooth,		_						. 6	30
Round,				-						4 -	22
	66	5 "									28
4.6	4.6	6 "									35
Flat	4.6	4 "								4.6	22
46	4.6	5 "								+ 4	28
6.6		6									40
Half-rou	ınd ''	Steel	Ha	ındl	es.	4 in	ch .			. 6	38
6.		"		4.4	,	5 '					44
	4.			4.6		6 "	4				56

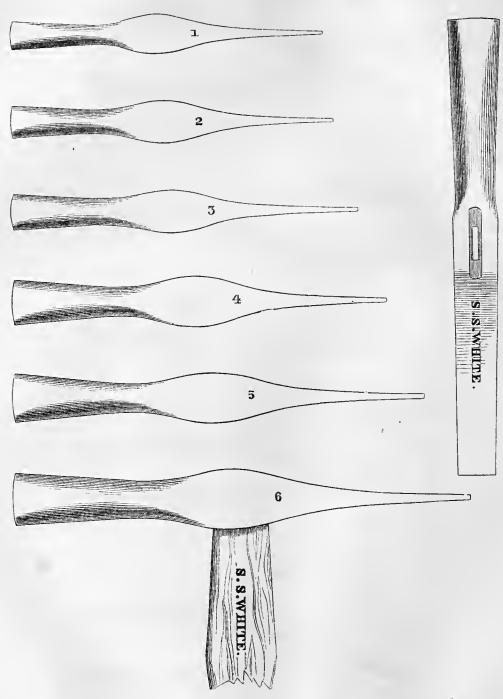
PLATE AND WIRE GAUGE.

BROWN & SHARPE'S STANDARD.

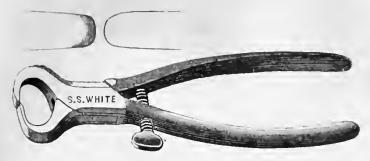


HAMMERS FOR RIVETING.

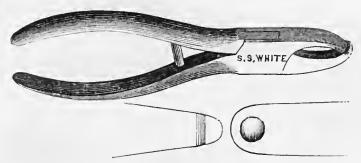
WITH HANDLES.

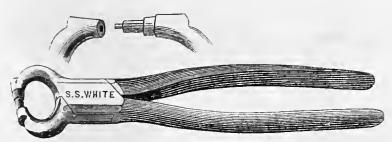


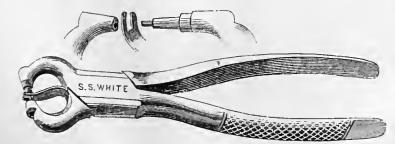
MECHANICAL FORCEPS.



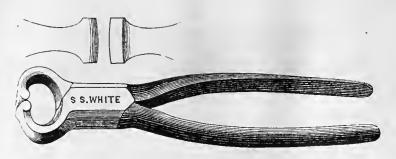
Nipper, for cutting out chambers, and cutting off backings from
Plates. Cutting-edge regulated by a Set-screw \$2 50







Improved Punch, for Rivet Holes 350



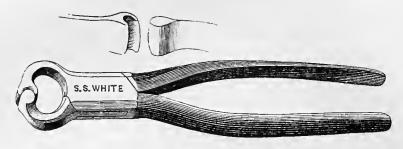
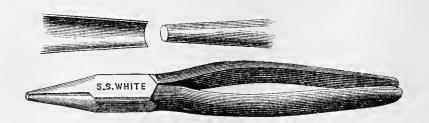


Plate Bender, for Lower Plate 2 00



CRUCIBLE TONGS.



Polished, with Sc	issor form of Handles, from 9 to 12 inches in length	1 75
Crucible Tongs.	Iron, Spring Handle, from 16 to 20 inches long .	50
4.6	Steel, with Joints, from 18 to 24 inches long .	1 25

BRUSH WHEELS.

Cotton or Buff Wheels, 32 sizes			from \$0	16 to	1	00
Brush Wheels, 175 varieties			4.6	15 to	1	00

Note.—Each Brush is numbered, and can be duplicated to order. When ordering where the number is not known, please state the number of rows in width, diameter, whether hard or soft, straight or cup-shaped.

FELT POLISHING WHEELS.

These Wheels are made of a very fine article of Felt, $\frac{3}{8}$ inch and $\frac{1}{2}$ inch in thickness. They are designed for finishing the Vulcanite or Rubber Base. They retain the Powder much better than the ordinary Cotton or Brush Wheel. Those who have used them recommend them.

13 i	nches in	diameter					\$0 20
$2\frac{1}{2}$	4.4	4.4					40

RUBBER WHEELS AND CONES.

This Material in the above form has been thoroughly tested by skillful Operators, and is pronounced superior to all other substances as a vehicle for carrying Powders used in polishing Hard Rubber. Should be wet when used.

Wheels	$1\frac{3}{4}$	inches	in diameter		•			•	\$0 20
4.6	2		6.6						40
Cones	1	inch	66	13 inc	hes l	ong			20

POLISHING MATERIALS.

Pumice Stone.	Finest qua	lity.			per por	un	d packa	ige	15
Prepared Chalk	66				66		66		15
Powdered Calci	ned Buck-h	orn,	large B	oxes					38
"	66		small	"					12
Tape covered w	ith Buck-ho	orn,	for finis	hing	Fillings		per pie	ece	08
Croeus, in smal	l Boxes con	veni	ent for u	ıse	•		•		10
Tripoli,	44	4 6	4.6						10
Emery,	66	44	a, 66						10
Rotten Stone,	4.6	6.6	64		•				10
Rouge, in ounce	e Boxes				-				25

Note.—Buck-horn is one of the very best substances known for polishing Fillings, removing light deposits of Tartar, and polishing the Teeth after Scaling. It is also very efficient in finishing Gold and Silver Plate. Put up in wood Boxes.

WAX PREPARATIONS.

WHITE AND YELLOW WAX FOR IMPRESSIONS.

Warranted pure; put up in thin cakes, convenient for use and adapted for the purposes for which they are intended, in half-pound Boxes.

White					•	per box	\$0 70
Yellow		0				66	42

WAX COMPOUND.

The attention of the Profession is called to this new Compound, which is pronounced to be the best material yet presented for obtaining impressions of the mouth. It is tough, firm, and takes a very sharp impression.

Put up in half-pound Boxes per box \$0.70

GUTTA-PERCHA AND WAX.

This Combination is pronounced a very superior article for taking impressions of the mouth. It is plastic, tough, and easily softened, either by dry heat or in warm water.

Put up in half-pound Boxes . . . per box \$0 50

WAX AND PARAFFIN.

White and Pink, for taking impressions. These Preparations are highly recommended by many Operators who have long used them. Soften with a dry heat, taking care to avoid overheating. Previous to taking the impression, the parts should be wiped dry with a napkin.

Put up in half-pound Boxes per box \$0 50

WAX FOR BASE PLATES.

Wax in thin square sheets, for Base Plates in Vulcanite Work.

In half-pound Boxes per box 50

Gutta-percha and Wax, in sheets as above, for same purpose.

In half-pound Boxes per box 50

MOULDING SAND FOR DENTAL USE.

A superior arti	cle.	Put	up in	Barr	els ar	nd pa	cked s	secur	ely fo	r ship	ping.		
Per Barrel												3	00
Per Quart	•												06

BAILEY'S FLASKS FOR MAKING METAL DIES.

Fig. 1.



Fig. 2.



Fig. 3.

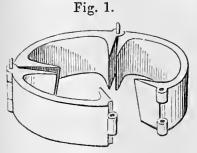


DIRECTIONS FOR USE.

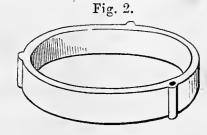
Place a shallow Plaster Cast, a, b, c, on a level surface; turn over it Ring No. 1, with Joint side down; pack the Sand in it, level off the top, turn up the Ring, pare the Sand down to the surface required for the Plate, a light tap on the Cast and it will fall out; pour in the Zinc; when the surface is covered, place Ring No. 2 over it, and fill up immediately; knock out the Sand, invert the Flask and pour the Lead upon the Zinc; part and remove the Rings, and with a few sharp blows at the joint the Dies will separate. There are two sizes.

Per Pair					•		\$0 50
" Set							1 00

MOULDING FLASKS.

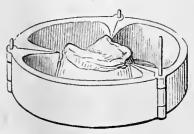


HAWES'.

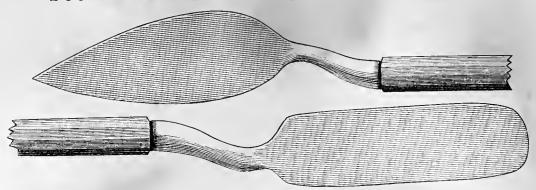


\$3 00

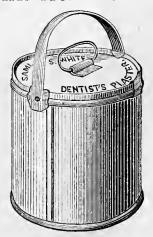
Fig. 3.



DOUBLE-END SPATULA FOR SAND MOULDING.



A SUPERIOR ARTICLE OF DENTAL PLASTER IN AIR-TIGHT CANS.



We have now on hand a supply of Plaster in painted Sheet-iron Cans, containing from six quarts to three pecks, at the following prices:

Six-quart Cans .									\$0 75
Twelve-quart Cans				•					1 25
Half-bushel Cans									1 60
Three-peck Cans									2 25
				* 0.0					
			A	Lso,					
Quarter Barrel .	•	•			•	•	•	•	$\frac{2}{2} 00$
Half Barrel .									325
One Barrel .									4 75

The above are the prices at the Philadelphia Depot. Boxing Cans, extra. Porterage additional on Barrels, half Barrels, and quarter Barrels, when shipped separately.

Freight and Expenses will be added when sold at other Depots.

r	Λ	AT	INGS	FOR	PIA	STER	CAST	C
L	U	AI	111 0 3	LUU	FLA	2 I E U	LASI	3.

Collodion, in 2 oz. Bottles, w	ith Brush				\$0.50
Sandarae Varnish, in 2 oz. B	lottles .				25
Liquid Silex, "	6.6				20

FRANKLIN'S IMPRESSION CUPS.

FOR UNDER JAW.







Under Side.

The advantage of this Cup over others in use—independent of its superior shape and adaptation—is in having a surplus of Plaster to be acted upon after the Cup is placed in the mouth and brought to its proper position, thus preventing the occurrence of any blanks or other imperfections in the impression. Made of Britannia Metal, of one size only.

75

50

PORCELAIN IMPRESSION CUPS.

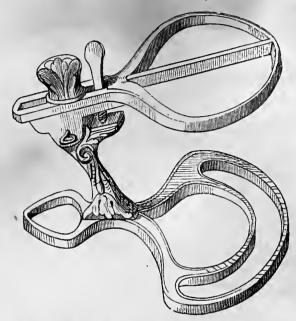
"Porcelain Impression Trays remedy at once the great inconvenience to which we have all been put, from the difficulty of having our Trays kept sufficiently clean, a difficulty not easily got over with the ordinary Metal ones, and even Silver is open to the same objection, and must convey to our patients unpleasant thoughts with regard to their antecedents. With the Porcelain Trays we have all that is desirable, viz., cleanliness, strength, and beauty."—British Journal of Dental Science.

BRITANNIA IMPRESSION CUPS.

Seven	sizes	for	the	Upper	jaw,	five for	the	Lower	jaw,	and:	six ve	rietie	S
for t	he Lo	wer	jaw	where	the I	ncisors	are 1	retained	1				

ARTICULATOR, No. 1.

INVENTED BY W. H. SMITH, NEWPORT, R. I.



\$1 00

ARTICULATOR, No. 2.

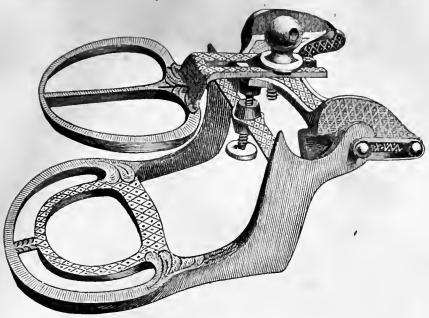
A NEW DESIGN.



2 50

ARTICULATOR, No. 3.

PATENT APPLIED FOR BY THE INVENTOR.

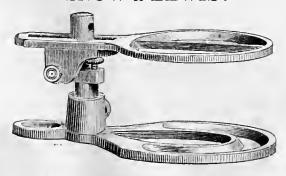


This Articulator is an entirely new design, and is recommended to the Profession as the most perfect in the market, having all the necessary movements for obtaining a correct Articulation of Artificial Dentures. The lower Plate is modeled from the natural jaw, and moves on cone-shaped Pivots in V-shaped Grooves (without Hinges), being retained in position by elastic rubber Bands or Rings. A backward, forward, and lateral motion is provided for, corresponding with the movements of the natural jaw, by which the arrangement of the Denture can be practically tested without disturbing the Articulation. The upper Plate has a backward and forward movement of two inches, and may be retained at any point by the Set-screw. The upper Plate has a double bend, so that when reversed from the position shown in the Cut an increase of one inch in the space is obtained between the Plates, allowing for both upper and lower Dentures. The Instrument is substantially made and nicely finished . . .

\$3 00

ARTICULATOR, No. 4.

SNOW & LEWIS'.



This has the general movements of No. 1. It is capable of an elevation of half an inch, by means of a Post, fitting into a Socket attached to the lower Plate, and can be secured at any point within this space by a Set-screw

			COF	UN	DUN	/ I	NH	ΕE	LS,	ET	C.		
No.	00			•								each	\$0 07
No.	0	•										44	09
No.	1			•								"	12
No.	2											"	16
No.	3											66	20
No.	4				•							66	25
No.	5	•										4.6	30
No.	6											. 6	40
No.	7											46	60
No.	8											"	1 00
No.	9											66	2 00
No.	10											4.6	3 00
						AL	so,						
Cor	undum	Cones									:	"	20
	"	Cups,	small									"	30
	6.6	6.6	larger									44	40
	4.	Files,	Round	, Taper	, and	Flat	Oval					1 66	30
	4.4	Slabs,	small									"	30
	4.4	66	large		•							66	60

Note.—For Illustrations of size and form, see folded pages at the end of the Catalogue.

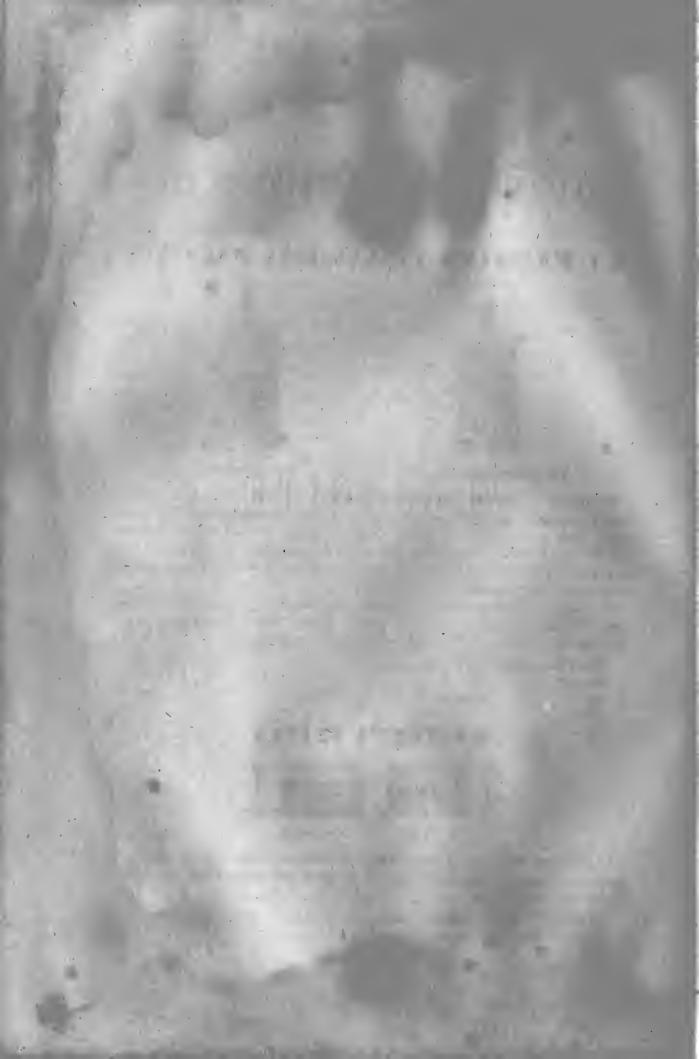
OTHER ARTICLES,

NOT ILLUSTRATED OR CLASSIFIED IN THIS DEPARTMENT,

WILL BE FOUND IN THE

MISCELLANEOUS DEPARTMENT.

VULCANITE.

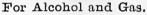


VULCANIZING APPARATUS, TOOLS, ETC.

9363-8

B. T. WHITNEY'S VULCANIZING MACHINES.







For Kerosene.

The Heater is composed entirely of Copper and Brass, is of two pieces only, a copper Pot, and brass Head that screws on to the Pot, dispensing with all bolts and nuts. They are uniformly $3\frac{7}{8}$ inches diameter inside; for two Flasks 5 inches, and for three Flasks 7 inches deep. The whole thing complete for use only weighs from 4 to $5\frac{1}{4}$ pounds, according to the size, whether for two or three Flasks. Special directions for using accompany each Machine.

The heat is applied by either Gas, Alcohol, or Kerosene. Apparatus for burning either is furnished as required at the prices named. The Kerosene Stove is also excellent for Laboratory use in heating Flasks, for packing, etc.

No. 1 V	Vulcaniz	er, one Flask				\$15 00
No. 2	4.6	two "				16 00
No. 3	6.6	three "				17 00

WHITNEY'S FLASKS.







New Style.

An alteration has recently been made in this Flask by reversing the position of the Bolts, fitting the Head into the hole in the lower part of the Flask, and using a Nut on top.

Whitney's Flask, of Malleable Iron				\$0 87
Bolts for Flask, per set of 3 .				18
			(18	81)

HAYES' IRON-CLAD OVENS.

FOR ONE OR TWO FLASKS.

Patented March 5th, 1861, and April 3d, 1866.



These Ovens are small and compact. They are of Copper of the usual thickness; which is surrounded with a Shell of Malleable Iron, $\frac{1}{8}$ inch thick, and strong enough of itself to withstand many times the strain required in Vulcanizing. They may be used therefore safely till the Copper is entirely destroyed by corrosion, which may then be renewed at small expense.

No. 1.	Oven, one Flask			\$15 00
No. 2.	" two "			16 00

HAYES' IRON-CLAD BOILERS.

FOR TWO OR THREE FLASKS.

Patented July 8th, 1862, and April 3d, 1866.



These Boilers are made with and without the Iron-clad Shell. The Cover is secured by three Set-screws, which play in a movable Screw Collar, and produce direct pressure upon the Packing Joint. The Thermometer Bulb is immersed in a Mercury bath outside the Steam Chamber. These Vulcanizers are furnished with Gas, Alcohol, or Kerosene Burners, as may be desired, at prices named below. They are represented by the Cuts as standing upon the Kerosene Heaters.

No. 2.	Copper Boiler,	two Flas	ks .	\$16	00
No. 3.	66	three '	٠.	17	00
No. 2.	Iron-clad Boiler	, two ·	٠.	17	00
No. 3.	"	three '		18	00

HAYES' FLASKS.

WITH IMPROVED CLAMPS.



The Lug-joint is so constructed that the strain all comes upon the casting. The Pin only serves to keep the Lug in place while not in use. The several pieces being attached together, are not liable to get lost or mislaid.

,		
Flask for Vulcanizing Oven or Boiler	\$0 37	
Clamp for Flagk	50	

AUTOMATIC LAMP FOR VULCANIZING.

WITH SELF-ACTING CUT-OFF.



Patented Dec. 1, 1863.

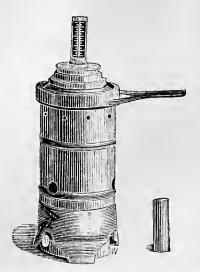
This Automatic Lamp may be used for Gas or Alcohol, and with or without the Automatic arrangement. When properly adjusted, the flow of Gas or Alcohol is controlled by a spring Cut-off, which is held open by a fusible alloy, which breaks loose and extinguishes the flames when the heat reaches a point slightly above that required to finish the process, and before the work or the vessel can receive injury. The Wick, being protected from combustion, does not require renewal.

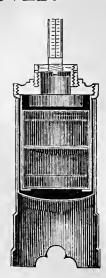
For Gas or Alcohol, \$1 50, or 50 cents extra for both.

Alcohol Holder						•	\$0 25
Kerosene' Union Stove .		•				٠	2 50
" with Jac	ket to	fit.	Vhitn	iey's	Vulca	nizer	2 75
Kerosene Burner, Hayes' .							2 00
Lamp, for Alcohol, Whitney's						,	75
Packing for Vulcanizer, Hayes	, .						10
" Whitne	ey's						05
" Duster and contents							25
Thermometer, for Oven or Boile	er		•				2 00
" Tube and Scale							1 00
Wrenches, for Oven or Boiler, 1	Hayes	· .					25
" Round, Whitney's							30
" Straight, "							25
" Flask,							10

VULCANIZER AND PACKER COMBINED.

A. B. WOODARD'S IMPROVED.





Of this Vulcanizer, the Inventor says:

- "The fact that Rubber was more plastic while exposed to a high heat, led me to the conclusion that in the Vulcanizer itself was the place to close the Flask.
- "I therefore devised the plan of inserting a movable Valve or Piston in the cover or top of the Vulcanizer, and connecting with it a Clamp and Flask; the action of the steam gradually raising the Valve or Piston, thus producing a motive power by the Steam itself, by which the Flasks were gradually and automatically closed.
 - "I claim the following points of improvement over other Vulcanizers:
- "1st. It automatically packs the Rubber, thus saving the time consumed in the ordinary way of packing.
- "2d. The liability of breaking and spreading the Blocks is avoided, as the Flasks are brought together by a moderate and continued pressure while the Rubber is in its most plastic state.
- "3d. The Cover and Boiler being connected by a Screw-coupling which does away with nuts or bolts; also, there being no friction on the packing; the coupling serving at the same time as Wrench and Handle to the Boiler.
- "4th. There being no bolts with the Clamp or Flask, make the Machine, as a whole, the most durable. All parts of it will last equally long as the Copper Boiler itself, which is made extra thickness. The Dentist will find it a great saving in using this Machine, as he will avoid extra expenses for new Flasks and Clamps, which are now so often broken."

This Machine will be made of one size only (unless specially ordered), which will be for two Cases or Flasks.

A Two-case Vulcanizer with Kerosene Lamp	o, Fl	asks,	etc.,	compl	ete	\$24 00
With Kerosene Stove in place of Lamp				ex	tra	1 00
With Gas Stove in place of Lamp .					66	1 00
Gas or Kerosene Stove without the Jacket						$2 \ 50$
Flasks adapted to the Vulcanizer .						60
Thermometer (Tube and Scale)						1 00
Packing for Valve						10
" " Cover						10

ALFRED CENTER, N. Y., Oct. 4th, 1866.

Dr. A. B. Woodard.—Dear Sir: I have used one of your Vulcanizers and Packers for more than a year, and think it the best machine that I ever used. It works perfect, and I have never made a failure with it. I can retit old plates that have become loose by absorption of the gums, so that they will fit as good as new plates with very little trouble.

Respectfully yours,

C. M. ALLEN.

PHILADELPHIA, May 10th, 1867.

Mr. S. S. White.—Dear Sir: We have fully tested Dr. Woodard's Patent Improved Self-packing Vulcanizer, and find it to possess all the qualities claimed for it. It is certainly a very superior apparatus.

Very truly yours,

MOORE & ZENER,

Dental Laboratory, N. W. cor. 5th and Arch Sts.

PHILADELPHIA, May 27th, 1867.

Mr. S. S. White.—We have used Woodard's Self-packing Vulcanizer with success. It accomplishes all that is claimed for it by the inventor. The time for Vulcanizing is somewhat longer than in some other Vulcanizers, but the result is satisfactory.

Yours, etc.,

CLEMSON & FORD, Dental Laboratory, No. 508 Arch St.

BORDENTOWN, N. J., May 29th, 1867.

Samuel S. White, Esq.—Dear Sir: For more than a year I have used Woodard's Valcanizer, and say in reference to it, that in every respect it is superior to any Vulcanizer I ever used, and I have tried many. I have frequently made the remark that all Mr. Woodard needed to have his Boiler a universal thing, was simply to get every Dentist to give it one trial, and they would cast aside at once all others:

Yours truly,

JOHN M. COMEGYS.

BUFFALO, N. Y., June 1st, 1867.

Dr. A. B. WOODARD.—Dear Sir: I have had in my office, for the past year, your Vulcanizer and Packer, together with others; have experimented with and given all a practical trial. I have no hesitation in saying that, in the hands of a competent Dentist, your Machine has advantages over all the others combined.

Very truly yours,

M. B. STRAIGHT.

Dr. A. B. WOODARD.—Dear Sir: Having seen the practical working of your Vulcanizer and Packer during the past year, I can heartily indorse the above.

Yours truly,

JAS. G. BARBOUR.

ALFRED, ALLEGANY Co., N. Y., June 4th, 1867.

DR. A. B. WOODARD.—Dear Sir: I have thoroughly tested your Combined Packer and Vulcanizer, and most unhesitatingly pronounce it Just The Thino. The work is nearly half done when the Flasks are closed, and a saving of time is thus effected; and I find the work comes out much smoother and more perfect than I have been able to produce by any other machine I have yet tried, and I have tried most of them.

Yours,

J. N. FORBES.

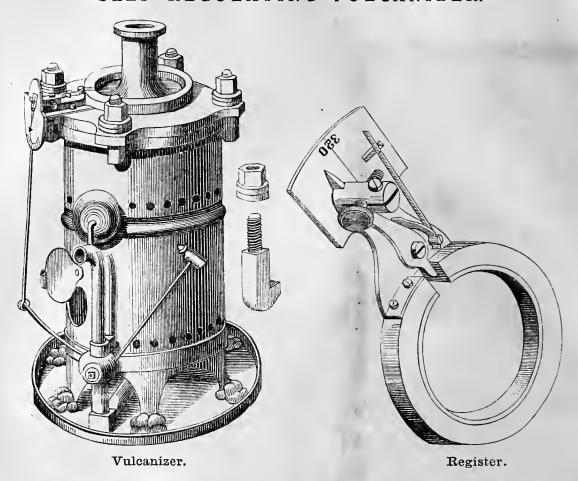
SYRACUSE, N. Y., June 9th, 1867.

Dr. A. B. Woodard.—Dear Sir: I have experimented with your Vulcanizer and Packer, and find it a success. It is the best I ever used or ever saw. It is not half the trouble, and I can get up work in half the time that I can in any other machine. The Profession here have all seen it, and think it a grand success.

Respectfully yours,

J. H. BRADT.

HOFFSTADT'S PATENT SELF-REGULATING VULCANIZER.



Many attempts have been made to regulate the flame used for heating Vulcanizing Machines.

In this Vulcanizer the flame is not only regulated as desired, but the degree of heat indicated without a Thermometer, and the attention of the Operator drawn by the tap of a bell when the heat has reached any given point. The Boiler is believed to be the strongest in the market. A brass Ring is well brazed on the outside of the Boiler; the Lid, which is made of bell-metal, is fastened to the Boiler with three hook-shaped Screws made of the best steel. There is a Ring cast solid with the outside of the Lid which incloses the Inner Ring or Regulator, that will expand or contract by changes of heat, and work the Lever which extends on the platform. The Lever comes in contact with the Hand on the Dial registering the degree of heat, and when the heat has reached any determined point—say 320°—it disconnects the Lever which is attached to a spring Stop-cock, and turns down the flame as far as the Set-screw allows, which may be set to any desired point.

Directions.

To open the Vulcanizer, take out the Screw opposite the Dial, and loosen the Nuts on the others to clear the hold of the Bolts. Raise the Lid, and slide it off the top of the Boiler. In closing, the same course is followed. Screw the Nuts down with the hand, then apply the Wrench to each until an even pressure is obtained. Place the boiler in the Jacket so that the slot in the Platform will be perpendicular with the end of the Leve, below, then attach the Rod.

Light 3as (which should not be turned on more than the Burner can consume). By means c. the Set-screw at the end of the Lever on the Platform, the Rod can be detach at any december. When it disconnects, the Hammer is contact with the Be., which calls the attention of the Operator to the the heat has the desired point. A Coal-oil Burner, adapted to the V teanizer, furn

two-case Boiler, ble Iron Flas
The Register, ches

c Kerosene Burner, and two Reversiegister. Complete \$35 00 attached to any Flat-top Vulcanizer . 7 00

E ,TAR /ULCANIZING FLASK.

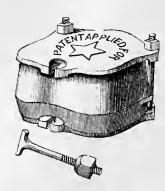
The advantage of this character others is in the thickness of the castings, its capacity, and the mode of fastening.

The objections to the ordinary Flasks have been that the screw-holes soon wear out; that the castings break with the pressure necessary to bring them together; and that there is not sufficient depth in the Flask for extreme cases. We think these objections are all met in the "Star" Flask. The Cut represents the fastening, a steel Bolt, with brass or malleable iron Nut tapered to fit the slot in the side of the Flask. The Nut is retained in the slot after it has been once used, and will remain until removed by the hammer. This Flask will fit most of the Vulcanizers in use.

Brass						\$2 00
Iron						1 50
Bolt and Nut						12

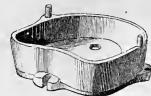
REVERSIBLE FLASK.

PATENTED BY E. T. STARR, AUGUST 14, 1866.











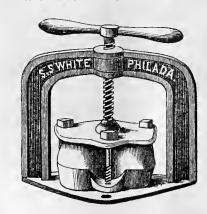


The Rings of this Flask are of different widths, either of them fitting the top or bottom accurately, as may be required.

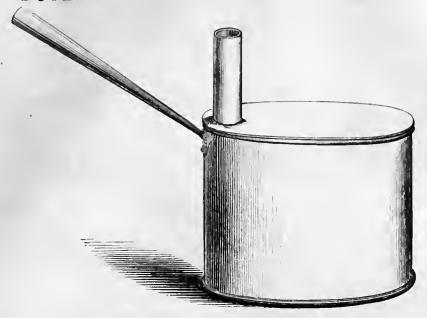
By using the wide Ring next to the bottom, an admirable Flask is obtained, for deep cases and partial sets,

or where the artificial gum rests on the natural. The narrow Ring is used next the bottom Plate, for whole dentures, where the parting is at the rim of the Plate. The bottom has three counter-sunk holes, through which the Plaster runs, and when set, holds the accompanying Ring securely to it. The fastenings of the Flask are T-shaped at one end, and fit the slots in the bottom Plate; and, being free at both ends, are more easily adjusted than ordinary bolts. The Flask being in four pieces (two Rings and two Plates), the Plaster is removed without the usual trouble. The Cuts give a faithful representation of the Flask in different positions.

FLASK CLAMP.

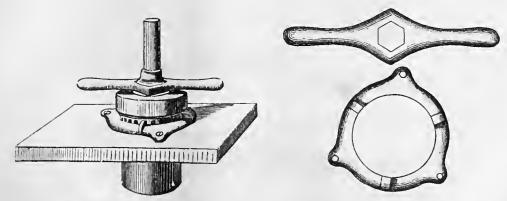


BOILER FOR HEATING UP FLASKS.



\$1 00

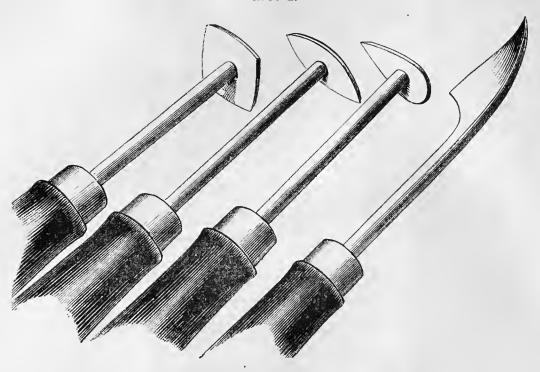
WRENCH AND BED-PLATE.

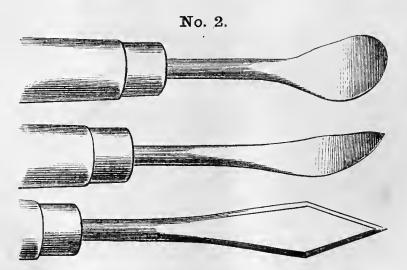


Adapted to Whitney's Vulcanizers. The Invention of Dr. Thomas Murray. A hole is cut in a table, work-bench, or box, the size of the Bed-plate, which is secured over it by three screws. It is a very efficient arrangement.

VULCANITE SCRAPERS.

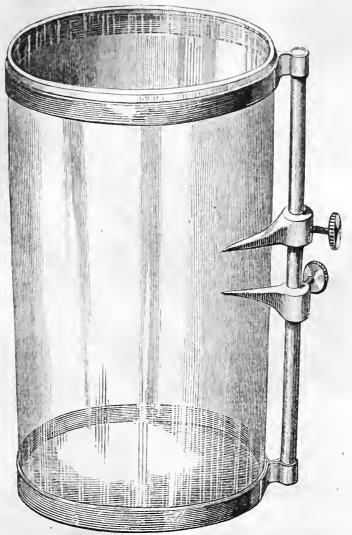
No. 1.





Polished Black	Handles,	No.	1				\$0 50
Plain Wood	66	66	2				25

RUBBER GAUGE.



For ascertaining the quantity of Rubber required for any given Case. The vessel being about half filled with water, set the lower Pointer to the level of the water; throw in every particle of the Model plate, set the upper Pointer to the rise of the water; empty the vessel, and again fill with water to the lower Pointer; and a sufficient quantity of Rubber to cause the water to rise to the upper Pointer, and there will be just enough to fill the mould. Allowance can then be made for surplus

\$1 25

POLISHING WHEELS, ETC.

(See page 171.)

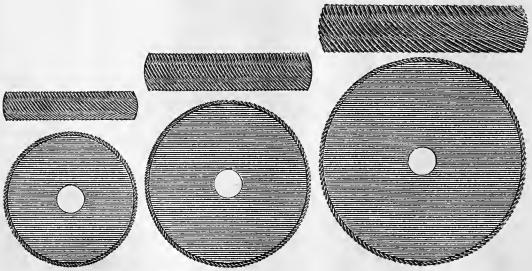
Bristle, Cotton, Felt, and Rubber Wheels; Rubber Cones, Cork Wheels and Cones, for polishing Vulcanite Work, etc.

VULCANITE BURS FOR LATHE.

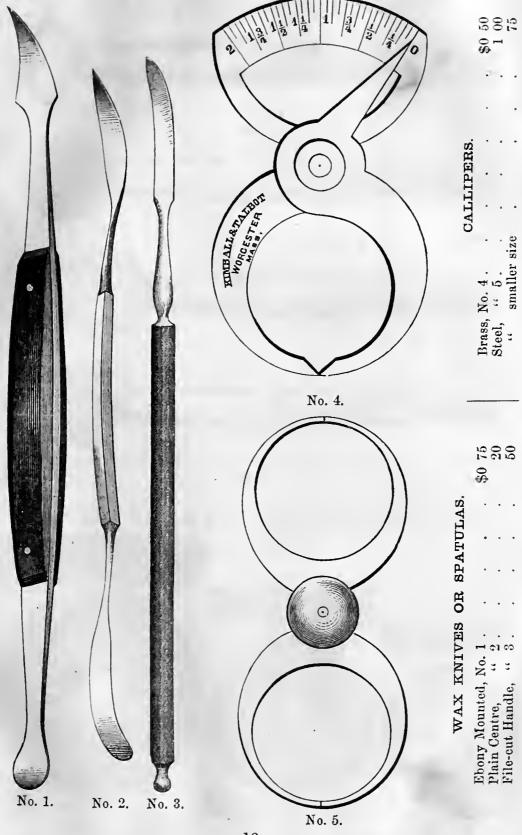


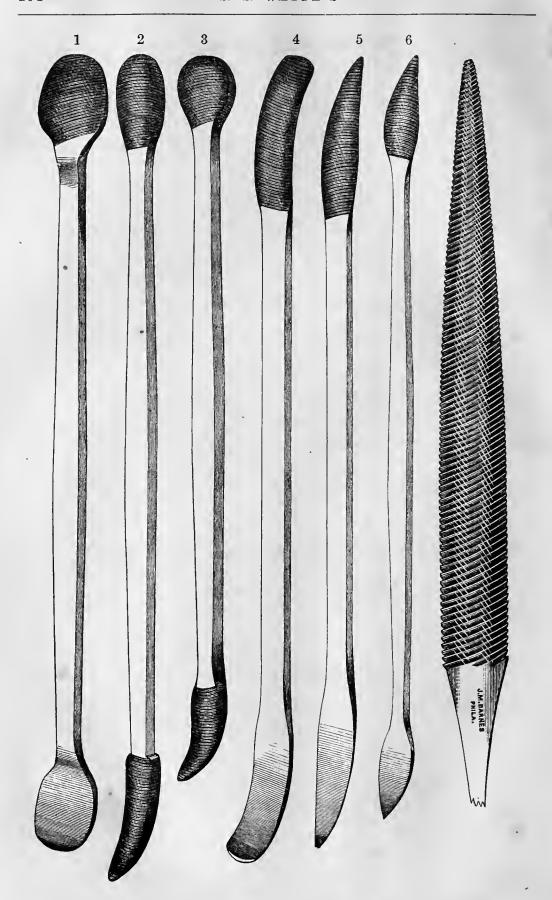
These Burs are cut and finished in the best manner. Four forms are illustrated, each the exact size of the Instrument each \$1 00

CIRCULAR FILES OR FILE-CUT WHEELS.



Designed for Vulcanite Work. The Cuts illustrate the diameter, width, and cut each \$1 25





VULCANITE FILES.

(SEE CUTS ON PREVIOUS PAGE.)

Nos. 1, 4, 5, 6, are cut on one side of each end. Nos. 2 and 3 are cut on both sides of each end.

In addition to those delineated, we have the Half-round Coarse-cut Files, $5\frac{1}{2}$ and $6\frac{1}{2}$ inches in length, for the same purpose.

Double-end	Rubber	File	S	•			each	\$0 25
Half-round	6.6	"	$4\frac{1}{2}$	inch			6.6	22
"	6.6	"	$5\frac{1}{2}$	66			"	27
6.6	6.6	4.6	61	"			66	32

SUPERIOR DENTAL GUM.

FOR PLATES FOR ARTIFICIAL TEETH.

Our own Manufacture.

The attention of the Dental Profession is invited to this preparation of Rubber. It is believed to be equal to any offered for sale, and is of a better color, when properly vulcanized, than most of that heretofore sold.

Per pound	1	•		•		\$4	00
Also, a superior article of Black l	Rubber		per	nour	nd	3	00

SUPERIOR GUTTA-PERCHA FOR BASE.

Our own Manufacture.

Per pou	nd .						\$3	00

RUBBER.

American	Hard	Rubber	Co.'s	Gum	or	Vulca	nite	•	per	pound	4	00
66	66	44	66	Gutt	а-ре	ercha	for Ba	ase			3	00

WAX FOR BASE PLATES.

(See page 172.)

ENGLISH RUBBER, PINK, WHITE, AND BLACK.

Pink	Dental	Rubber	(deep)), No.	1 x			•	•	\$10 0	0
"	44	"	(pale)	, "	1					10 0	90
* S P		"	•							8 0	0
White	e "	"								8 0	0
Black	"	66	•.							3 0	00

The above are supplied in one-pound and half-pound packets, with directions for Vulcanizing.

COATINGS FOR PLASTER CASTS.

(See page 175.)

POLISHING MATERIALS FOR VULCANITE WORK.

(See page 171.)

SOLDER FOR RUBBER WORK.

The advantages are that it saves time, the discoloring and weakening of the Plate and inconvenience of Vulcanizing. Directions accompany each Ingot.

Per Ingot												\$1 5	0
-----------	--	--	--	--	--	--	--	--	--	--	--	-------	---

^{*} This Rubber, though inferior in color to the other Pink Rubbers, is much stronger, and by coating the more exposed parts with the No. 1 or No. 1 x Pink Rubber, a very strong piece can be made with but a slight difference between the colors of the two kinds of Rubber used in its construction.

OTHER ARTICLES,

NOT ILLUSTRATED OR CLASSIFIED IN THIS DEPARTMENT,

WILL BE FOUND IN THE

MISCELLANEOUS DEPARTMENT.

MISCELLANEOUS.

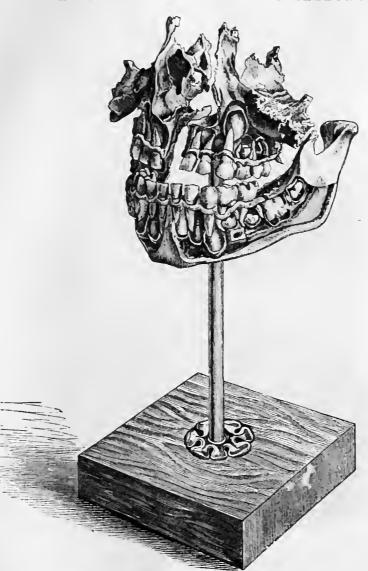
RUNTER LAND BUT

MISCELLANEOUS.

-8:63:3-

ANATOMICAL PREPARATIONS.

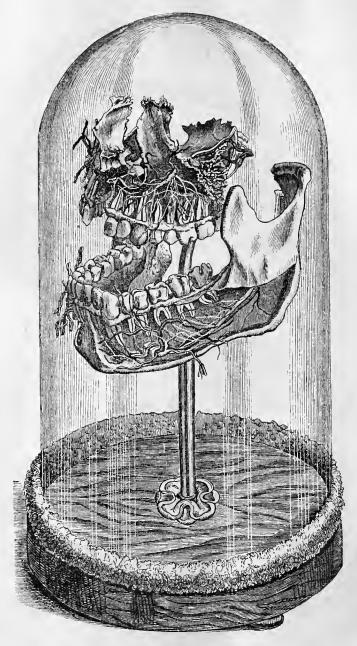
FIRST AND SECOND DENTITION.



There are two varieties of these Preparations; one exhibiting Dentition between the ages of 6 and 7—the other between the ages of 7 and 8 years—Mounted on Round Bases and covered with Glass Vases, as illustrated on the following page.

(199)

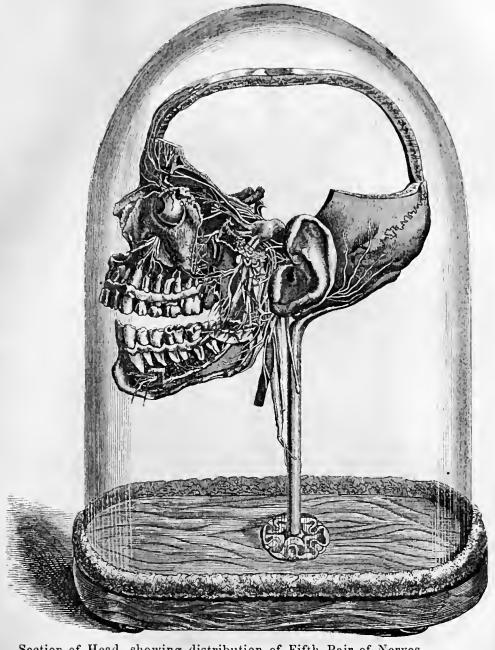
UPPER AND LOWER MAXILLA.



Upper and Lower Maxilla, exhibiting Nerve and Artery on one side, and Artery and Vein on the other, Jaw carved and Teeth split to show the Nerve Cavity (Mounted), with Vase . . \$30 0

A supply of Adult Jaws and Dentitions always on hand, warranted perfect in every particular, and will be packed to transport safely, with proper handling, to any part of the country.

SECTION OF HEAD SHOWING FIFTH PAIR OF NERVES.



Section of Head, showing distribution of Fifth Pair of Nerves, connected with Teeth and Jaws (Mounted), with Vase . \$50 00

The above Cut gives a general idea of a desirable Preparation, illustrating the distribution of the Fifth Pair of Nerves. They are not always exact copies of the Cut, but are selected with care from the stock of the Artist with a view to show the principal ramifications of this important pair of Nerves.

ANATOMICAL PREPARATIONS.

Head, showing First and Second Dentition (Mounted), with Vase											
Comparison of the Angle of the Lower Jaw in the Infant, Adult,											
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Comparison of t	he Arc	h of th	e Uppe	r Jav	w in	the I	nfant	and	the		
Adult (Mou	nted),	withou	t Vase							9	50
Skulls, No. 1										10	00
2										8	00

ANATOMICAL ILLUSTRATION OF THE FIFTH NERVE.

NEW EDITION.

This Plate affords correct views of the course of the Fifth or Trifacial Nerve, and its connection with the other Cranial Nerves and the Sympathetic; the Arteries and parts accessory to it are clearly displayed. The Drawings are the size of life, and faithfully Colored.

The same Plate also contains representations of the Microscopical Anatomy of the Teeth.

This Work is strongly recommended as embracing far more than any Model, however complicated, is made to show, and, as a work of study and reference, will be found invaluable to the Profession.

Accompanying the Plate is a Pamphlet giving a concise and practical description of the Anatomy of the Fifth Pair of Nerves, being a Key to the Plate. By Jas. E. Garretson, M.D., D.D.S., Lecturer on Anatomy in the Philadelphia School of Anatomy and Operative Surgery.

Size of Plate, 21 by 27 inches.

The above, including the Description, will be put up in pasteboard Boxes, so as not to be injured in carrying, and sent, Free of Postage, on the receipt of Three Dollars. Mounted in Map Style, Four Dollars.

DENTISTS' ACCOUNT BOOKS.

Designed to accompany Bill Head No. 1, as described on page 204, with a similar Cut over each page, five inches in length; printed on fine paper, paged, and substantially bound in four sizes.

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CHILD'S DENTAL RECORD.

Containing forms similar to Bill Head No. 2, as described on page	
205. Four forms, $6\frac{1}{2}$ inches long by $2\frac{1}{2}$ inches wide on each page.	
Printed on good paper and substantially bound. 216 pages	3 00

ALLPORT'S REGISTERING DENTAL LEDGER.

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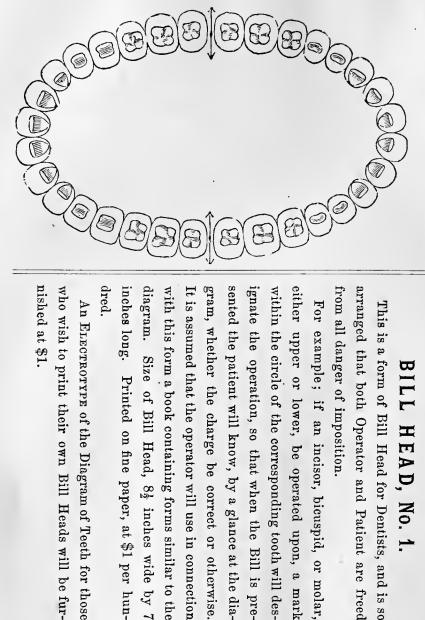
The annexed Cut represents a diagram, of which there are two on each page, with space alongside of each, appropriately ruled, for name of patient, reference, date of operations, charge for the same, and credit for amounts paid.

The symbols denote the character and locality of the various operations performed, thus showing at a glance the history and condition of the mouth of each patient.

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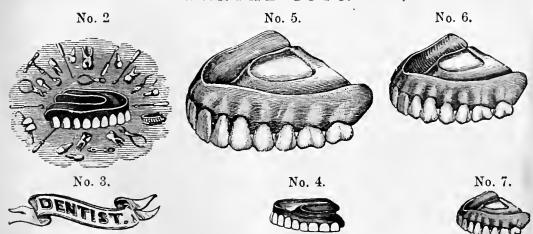
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Gutta-percha (Am. Hard Rubber Co.'s.), 195.					
Gutta-percha (S. S. White's), 195.					
Gutta-percha Filling, a superior article			per	ounce	2 00
•					
H.					
Hammers for riveting, detached Handles .		•	•		25
Hammers for riveting, with Handles, 6 sizes, 168.					
Hand Brushes, Plate	•		•	•	50 to 75
Hand Lathes, 160, 161.					
Hand Mirrors, Pearl, 108, 109, 110.					
Hand Mirrors, Rosewood, 114.					
Handles for Riveting Hammers	•	•	•		05
Handles of Wood for Files, Scrapers, etc		•	•	•	04 to 10
Handles, Pearl and Cameo, 114.					
Handles, Pearl Lancet, 112.					
Handles, Pearl Scaler, 112.					
Handles, Pearl Scissor, 113.					
Hawes' Moulding Flasks, 173.					
Hayes' Vulcanizing Flasks and Clamps, 182.					
Hayes' Vulcanizing Ovens and Boilers, 182.					
Head-rest, Portable					6 25
Head, showing First and Second Dentition, 202.					
Hill's Stopping			per	ounce	5 00
Hoffstadt's Register for Vulcanizer, 186.			Ī		
Hoffstadt's Self-regulating Vulcanizer, 186.					
Husband's Isinglass Plaster, 1 yard long, 6 inches	wide.	in Box	K.		75
, , , , , , , , , , , , , , , , , , ,	,				

I.

Impression Cups, Britannia, Porcelain, etc., 175. Improved Soldering Pan, 163.

India-rubber Tubing, French		. per foot	\$0.20
Ingot Moulds, Iron, broad Base, to slide, with Handles			3 00
Inhalers for Nitrous Oxide Gas, 144, 145.			
Instrument Cases, empty, 104.			
Instrument Handles, Pearl and Cameo, 114.			
Instrument Stands, 130.			
Iodine in Creasote, Saturated Solut., ½ oz. Glass-stopper	ed Bot	tles	50
Iodine in Glycerin, Saturated Solut., 1 oz. Glass-stopper	ed Bot	tles	40
Iodine, Tineture, 1 oz. Glass-stoppered Bottles .			35
Iron, Preparations of, 147.			
Isinglass Plaster, 1 yard long, 6 inches wide, in Box	•		75
K.			
Kaolin, prepared		per pound	12
Knives for preparing Microscopic Objects (Valentine's)			6 00
Knives for trimming Plaster Casts			25
L.			
Laboratory Tongs, Steel, Jointed			1 25
Ladles of Cast-iron, No. 5, with Wrought-iron Handles			50
Ladles of Cast-iron, No. 6, with Wrought-iron Handles			60
Ladles of Cast-iron, No. 7, with Wrought-iron Handles			75
Ladles of Cast-iron, two Ladles and one Handle detache	$\cdot \mathbf{d}$. per set	1 00
Ladles of Cast-iron, without Handles, extra large .	•		50
Lamps, Alcohol, for Soldering			90
Lamps, Alcohol, for Soldering (Franklin's Safety), 164.		•	
Lamps, Oil, for Soldering	•		75
Lamps for Annealing Gold Foil, 77, 78.			
Lamps for Vulcanizing, 183.			
Lamps, Glass Spirit, 164.			
Lancets, Abscess, Steel Handles, 90.			
Lancets, Fixed Blades, 50.			
Lancets, Pearl Handles, 50.			
Laneets, Pocket, 50.			
Lathe Burs, for removing Solder	•		75
Lathe Cord Couplings, Steel	•		50
Lathe Cords, Pressed Leather	•	. per foot	10
Lathe Files, Circular, 192.			
Lathe Saws, attached to Shaft			0 75
Lathes, 157 to 161.			
Lead, (price fluctuates).			

					-			
Ledger (Allport's), Dental, 203.								
Lip Protectors, Silver Plated, 88	5.							
Liquid Silex, 2 oz. Bottles								\$0 20
Local Anæsthesia Apparatus, 13	37 to 141	1.						
Lubricating Oil, Pure Sperm, 16	31.							
		М.						
Macomber's Gas Blow-pipe, 162								
Magnets for removing Steel from		$s, 2\frac{1}{2}$	3, 4,	and	5 inc	$_{ m hes}$		20 to 75
Mallet, Automatic Plugging, 58.								
Mallets for Plate, Horn								38
Mallets for Plate, Wood .		•						20
Mallets, Plugging, 59.								
Marble Tops for Spittoon Stands	s, 129.							
Materials for Fillings, 27.								
Mechanical Forceps, 169, 170.								
Medical and Dental Books, 207.								
Mercury Holders, 86.							- `	
Mercury, Redistilled, 1/4 pound B	ottles							50
Merry's Drill, 77.								
Metallic Air-chamber Patterns,	assorted					p	er dozen	25
Metcalf's Annealing Lamp, 77.								
Michaelis' Odontoplasma	•		•	•	•	•	per box	1 00
Microscope for Dentists, 133.								
Mills, Rolling, 155, 156.							ø	
Monsel's Powder Subsulphate of					•	•	•	25
Monsel's Solution Persulphate of	f Iron,	l oz.	Bottle	es	•	•		25
Morocco Teeth Cases, 106, 107.	,						00	. ~ 00
Mortars and Pestles, Wedgewood	1 .	•	•	•	•	•	. 60	to 5 00
Moulding Flasks, 173.								
Moulding Rings, Nest of 4	•	•	•	•	•	•		75
Moulding Sand	•	•	•	•	•	-	er quart	06
Mouth Blow-pipes, 163.	•	•	•	•	•	•	per bbl.	3 00
M 41. D'								50
Mouth Distenders, Silver Plated		•	•	•	•	•	•	$\begin{array}{c} 50 \\ 1 \ 25 \end{array}$
Mouth Distenders, Silver Frated Mouth Mirrors, German Silver H		15	•	•	•	•	•	1 20
Mouth Mirrors, Pearl, 111, 112.	rame, 1	.10.						
Mouth Mirrors, Wood, 114.				,				
Mouth Washes, 148.								
Muffles, Slides and Furnaces, 15	3, 154.							
Myrrh, Tincture, 8 oz. Bottles .								1 00
,,, , , , , , , , , , , , , ,						•	•	1 00

	N.								
Napkins, 92.									
Napkin Holders, 85.									
Nerve Bit Holder, Ivory Handle								SI	00
Nerve Bit Holder, Steel Handle								-	75
Nerve Cavity Instruments, 71, 72, 73.									
Nerve Cavity Pluggers (Bits)					ne	r doz	911		75
Nerve Extractors, 73.					r				
Nerve Paste (S. S. W's.)									50
Nerve Paste with Morphia	•	•		•				1	25
Nippers for cutting out Chambers, 169.	•	•	•	•	•			-	
Nippers for cutting out Plate, 169.	•								
Nippers for cuting out Plate (Stubs')								2	90
Nippers, Side and Front, polished Stee		•	•	•	•	•	•		90
Nippers, Side and Front (Stubs') .		•	•	•	•	•	•	1	25
Nitrate of Ammonia, 145, 146.	•	•	•	•	•	•	•	•	20
Nitrous Oxide Gas Apparatus, 142, 143	>								
	··								
Nitrous Oxide Gas Inhalers, 144, 145.									
Noiseless Hand Lathe, 160.									
Nose Compress, 145.									
	\circ								
	Ο.								
Odontoplasma (Michaelis')						per bo	Z	1	00
Oil Cans, Zinc, Spring Bottom .									25
Oil, Sperm, 161.									
Oil Stones, Arkansas, 136.									
Operating Cases, 94 to 103.									
Operating Chairs, 116 to 123.									
Operating Tables, 130.									
Orange Wood, for Wedging					per	bund	le		10
Os Artificiel (Roberts')					-	per bo		1	00
Os Artificiel (Roberts'), Gum Color .						"		1	00
Ovens (Hayes') Vulcanizing, 182.			•						
Oxy-Chloride of Zinc (Smith's)					ner	box 1	00 to	o 4	00
only children or mine (children)	•		•		P				
	P.								
Paper Pellets for drying out Cavities,	900 in a	a Box							50
Pattern Metal, Lead covered with Tin					per	pour	nd		50
Pattern Metal, extra thick						"			60
Pearl Handles for Lancets, 112.				·	·				
Pearl Handles for Scalers, 112.									
Pearl Handles for Scissors, 113.									

Pearl Hand Mirrors, 108, 109, 110.										
Pearl Instrument Handles, 114.										
Pearl Mouth Mirrors, 110, 111, 112.										
Pearl Tongue or Cheek Holders, 113										
Phénol Sodique, 147.									0	
Pin Holders								. 4	80	35
Pipes or Points for Syringes. Silve	r									50
Pivot Wood						. n	er bo:	X		50
Plain Enamel, for Point and Base						-	ounc			38
Plaster, 174.						•				
Plaster						per	quar	t		08
Plaster Knives										25
Plate and Wire Gauges (Brown & Sh	arpe'	s sta	ndar	1), 16	7.					
Plate and Wire, Gold, Silver, and Pl	_			,,						
Plate Benders for Upper and Lower).							
Plate Brushes, Hand								50	to	75
Plate Burnishers, Blood-stone .							. 1	25 to	1	50
Plate Burnishers, Steel										50
Plate Files, Rommetin's (successor t	o Fro	id),	166.							
Plate Files (Stubs'), 167.										
Plate Nippers for cutting out Chamb	ers, 1	169.								
Plate Nippers, for cutting out Plate	in fitt	ing a	roun	d the	Teeth	, 169	9.			,
Plate Nippers, for cutting out Plate	in fitt	ing a	aroun	d the	Teeth	ı (Stı	abs')		2	90
Plate Punches, for punching Rivet I	Ioles,	169.								
Plate Punches, for punching Rivet I	Holes,	imp	roved	, 169.						
Plate Scrapers										25
Plate Shears, curved (Stubs') .							. 1 :	20 to	1	70
Plate Shears, straight (Stubs')								90 to	1	25
Plate Shears with Scissor Handles, 1	166.									
Plate Shears with Scissor Handles, I	Nut F	asten	ings						1	50
Plate Shears with Scissor Handles, c	urved	l							2	50
Platina Scraps put into Plate or Wir	e					per	ounc	e		80
Platina, Sponge						. pe	r dwt			75
Pliers and Plugger combined, 75.				0						
Pliers, Round and Flat Nosed .										4 0
Pliers, Round and Flat Nosed (Stubs	s')									65
Plug Burnishers, 54, 55, 57, 60.										
Plug Finishing Burs, 76.										
Pluggers, 51 to 58.										1
Pluggers, Amalgam, 60.										
Pluggers, for Sockets						per	dozer	1	2	50
Plugging Forceps, 48 to 50.										
Plugging Mallets, 59.										
Plugging Mallet, Automatic, 58.										
Plug Pliers for carrying Gold to the	Cavit	У								50
• 0		•								

Plug Pliers for earrying Gold	to the	Cavi	ty, ez	ctra	large				\$0	75
Plug Pliers for carrying Gold							Shell			00
Pocket Diary and Appointmen										
Polishing Apparatus, 157 to 1	61.	1								
Polishing Materials, 171.										
Polishing Tape, 91, 92.										
Polishing Tape, Water-proof,	92.									
Porcelain Impression Cups, 17										
Portable Forges, 154.	٠.									
Portable Head-rest									6	25
	•	•	•	•	•	•	•		U	رەند
Porte Polishers, 88.	_								,	50
Porte Polishers, Ebony Handl		- D	. 447	•	•	•	•		1	50
Potassa, Chlorate of, pulverize			otties	•	•	•	•		Ι,	75
Powdered Calcined Buck Horn		•	•	•	•	•	•		and	
Prepared Chalk		•	•	•	•	•	_	pound		15
Prepared Flax for drying out		es	•	•	•	•	per	pkge.		15
Preparations for Office use, 14	6.									
Preparations of Iron, 147.										
Press for Corundum Wheels, n	naking	a w	hecl a	3 inc	hes in	n di			4	00
- · · · · · · · · · · · · · · · · · · ·			•	•			. p	er box		10
Pure Cotton for drying out Ca	vities						per	pkge.		20
Pure Rubber for separating							per	ounce		38
Pure Rubber for Coffer-dam					•		6	4		50
		_								
		£.	₹.							
Register for Vulcanizers (Hoff), 18	86.							
Revolving Head Short Sockets	, 91.		,							
Rhigolene, 12 oz. Bottles .									1	00
Riveting Hammers, 168.										
Rolling Mills, 155, 156.										
Rose Red, English							per	ounce	1	50
Rosewood Hand Mirrors, 114.							•			
Rosewood Mouth Mirrors, 114										
Rotten-stone							. ne	er box		10
Rouge (a superior article)							per ound			25
Rubber Base, 195, 196.	•		i	•	·	·	por oun	00011		
Rubber (Coffer-dam), 93.										
Rubber Files, 194, 195.										-
Rubber Gas Bags, 146.										
Rubber Gasometers, 146.										
Rubber Gauges, 191.										
Rubber Solder, 196.	0.10		1		o · ·		,	,		
Rubber Tablets, Soft Rubber					8 incl	nes	long, 5 i	nches	_	0-
wide, used under work to	-			•	•			•		25
Rubber Tablets, same as above	e, 3 in	ches	squai	re	•			•		50

Rubber Tubing, 93, 146. Rubber Wheels and Cones, 171.

s.

Saliva Pumps, 81, 82, 83.							
Saliva Pump Attachment, 82							
Sandarac Varnish, 2 oz. Bottles				•		. \$0	25
Saponaceous Mouth Wash, 148.							
Saw Frames, for Teeth, Ivory Hand	lle, 80).					
Saw Frames, mechanical	-					. 1	. 00
Saws, attached to Shaft for Lathes							75
Saws for Frames, Swiss					per doz	en	13
Saws for Frames, French .					. "		20
Saws, small Circular, for cutting Te	eth o	ff Pla	ate			38 and	d 50
Scaler Handles, Pearl, 112.							
Scalers, 60, 63.							
Scalers, small Ebony Handle, 63.							
Scales and Weights, 209.							
Scissors, Foil (Index F).							
Scissor Handles, Pearl, 113.							
Scissors, small curved						. 1	00
Scotch Stones						15 to	25
Scrapers for Plates							25
Scrapers for Plates, Triangular							50
Scrapers for Vulcanite, 190.							
Section of Head, showing Fifth Pair	r of N	erve	s, 201				
Self-acting Blow-pipe, 162.							
Separating Instruments for Gold, 90).						
Serrating Files for Pluggers .						25 and	1 50
Sesquichloride of Iron, Crystallized,							50
Sheet-tin for Patterns					per pour	nd	50
Silex, Coarse, for Slides					. "		25
Silex, fine					. "		50
Silex, extra fine					. "	1	. 00
Silex, double fine					. "	2	00
Silex, Liquid, 2 oz. Bottles .							20
Silex Tape					per pie	ce	08
Silver Pipes or Points for Syringes							50
Silver Plate, Wire, Solder, and Spri	ngs, 2	28.					
Skulls, 202.							
Slides and Muffles for Furnaces, 154	1 .						
Socket Bits for Spring Catch Socket	t				per doze	en 4	00
Socket Bits, Excavators, Burs, and	Drills				per doze	n 1	50
Socket Bits, Pluggers					. "	2	50

									_	
Sockets, Plain							\$1	00	to 1	50
Sockets, Revolving Head									2	25
Sockets, Ring Slide, for Nerve Bits									1	00
Sockets, Short, 91.										
Sockets, Spring Catch									3	00
Sockets, Spring Catch, Revolving I	Icad								4	00
Solder Burs, Lathe										75
Solder for Plate, Gold and Silver,										
Solder for Rubber Work, 196.										
Soldering Lamps								75	and	90
Soldering Lamp (Franklin's Safety), 164	١.								
Soldering Pans, 163.	,,									
Solder Tongs, 7, 9, and 12 inches								45	, 50,	60
Solution Perchloride of Iron .							e bott		,	25
Spar, Prepared, Common					-		r pour			12
Spar, Prepared, for Enamel .						. •				75
Spar, Prepared, for Body .							4.6			50
Spatulas for Manipulating Wax, 19										
Spatulas for Sand Moulding, 174.										
Spatulas, Steel, English, 4 inch										25
Spatulas, Steel, English, 5 inch	•	•	•	•	•	•		•		30
Spatulas, Steel, English, 6 inch		•	•	•	•	•	•	•		40
Spettings, Steel, English, 6 inch Spelter (Zinc), best Lehigh (fluctus		•	•	•	•	•	•	•		40
Sperm Oil, Pure, for Lubricating, 1										
Spirit Lamps, Glass, 164.	01.									
						mo	noun	a		50
Spittoon Funnels	•	•	•	•	•	pe.	r poun	ıu		30
Spittoon Marbles, 129.										
Spittoon-stands, 128, 129.	20									
Spittoon (Whitcomb's) Fountain, 19							1	,		P- F-
1	•	•	٠	•	•	· I	er dw	t.		75
Spray Apparatus, 137 to 141.										
Spunk for drying out Cavities, 93.	^									
Stand or Table for Instruments, 13										
Stopping (Bevins'), ½ oz. Boxes	•	٠	•	•	•	•	•	•		00
Stopping (Hills')	•		•	•		рe	r ound	е		00
Stopping (S. S. White's)	•		•	•	•	•	66		2	00
Students' Cases, 105, 106.										
Stump Extractors, 47.										
Styptic Colloid, 2 oz. Bottles .							•			60
Styptic Plaster							per bo	X		75
Sulphuric Ether, Concentrated, 1 p	ound	bott	les						2	00
Syringes, 79.										
Syringes, Elastic Bulb, 79.										

T.

Table Blow-pipe, 156.						
Table Lathes, 160, 161.						
Table or Stand for Instruments, 130.						
Tape Carrier, Ivory Handle, 88.						
Tape-Corundum, Silex, and Buck Horn				per piece	30	08
Tape, Water-proof Polishing	`			"		10
Teeth Cases, 106, 107.						
Thermometers for Vulcanizers, various makes as	nd p	rices				
Thimbles, Extension (Taft's), 80.						
Tincture of Catechu, 8 oz. Bottles						75
Tincture of Iodine, 1 oz. Glass-stoppered Bottles						35
Fincture of Myrrh, 8 oz. Bottles					1	00
Fincture of White Oak Bark, 8 oz. Bottles .						60
Tin Foil (S. S. W's.)				per book		50
Γin, in bars (fluctuates).						
Toilet Mouth Wash, 148.					٠	
Tongs for Crucibles, Laboratory, etc., 170.						
Fongue and Duct Compressors, 83, 84.						
Congue Holders (Flagg's), 84.						
Tongue or Cheek Holders, Pearl, 113.						
Footh Brushes, 149.						
Footh Brushes (Dr. J. D. White's Pattern) .				per dozen	4	00
Footh Holders for holding Teeth while grinding						15
Footh Polisher (Luther's)	,			•	1	00
Footh Powder, 147, 148.						
Footh Powder Boxes, 208.						
Footh Tablets (Lyon's), 149.						
Footh Wash, 148.						
Frephine for Antrum, 88.						
Pripoli				per box		10
Froy Weights. Sets from 1 grain to 1 ounce .						75
Fubing, Rubber, 93, 146.						
Turn Keys				2 00 and	3	00
Tweezers for picking up Solder						20

U.

United States Lathe, 159. Universal Porte Polisher, 88. Upper and Lower Maxilla, 200.

V.

Valentine Knife, for preparing Microscop		bjects					\$6	00
Vaporizers for Local Anæsthesia, 137 to	141.							
Varnish, Sandarae, 2 oz. Bottles .								25
Velvet, Cotton, Silk finish, for lining Cas	es				. 1	er yard	2	00
Velvet, extra heavy, all Silk, for lining (lases					6.6	10	00
Vises for Bench, 4 inch, Plain .							3	12
Vises for Bench, 4½ inch, Plain .							3	25
Vises for Bench, 5 inch, Plain .							3	38
Vises for Hand, Wood Handle, 3, 31, and	4 in	ches					1	00
Vises, Parallel							9	50
Vises, Pin, Hollow							1	00
Vises, Pin, with Serew							1	00
Vises, Pin, with Slides							1	00
Vulcanite Base, 195, 196.								
Vulcanite Burs, Lathe, 192.								
Vulcanite Files, 194, 195.								
Vulcanite Files, Lathe, 192.								
Vulcanite Packers, six shapes						each		25
Vulcanite Scrapers, 190.								
Vulcanizers, 181 to 187.								
Vulcanizing Flasks, 181 to 188.								
Vulcanizing Lamps, 183.								
• ·	V.							
Water-proof Polishing Tape, 92.	•							
Wax Preparations, 172.								
Wax Spatulas, 193.								
Wedge Cutter, 90.								
Wedgewood Mortars and Pestles .						. 6	0 to 5	00
Wadaina Waad					ner	bundle		10
Weights, Troy, Sets of 1 grain to 1 ounce				·				75
Whet-stones, Arkansas, 136.		•	•	·	·			
Whiteomb's Fountain Spittoon, 126.								
White Oak Bark, Tincture, 8 oz. Bottles								60
Whitney's Vulcanizers, 181.	•	•	•	•	•	•		
Whitney's Vulcanizing Flasks, 181.								
Wire and Plate Gauge, 167.								
Wire for binding Casts					T) d	er spool		20
Wire, Gold, Silver, and Platina, 28.	•	•	•	•	. 19	or phoor		
Woodard's Vulcanizer, 184, 185.								
Wood Handles for Files, etc.							4 to	10
Wrench and Bed-plate, 189.	•	•	•	•	•			
_	7							
Zinc or Spelter (fluctuates).	1.							

NOTICE.

ALL NEW INVENTIONS OR MANUFACTURES

APPLICABLE TO THE

PRACTICE OF DENTISTRY

WILL BE NOTICED AS THEY APPEAR

IN THE

ADVERTISING COLUMNS

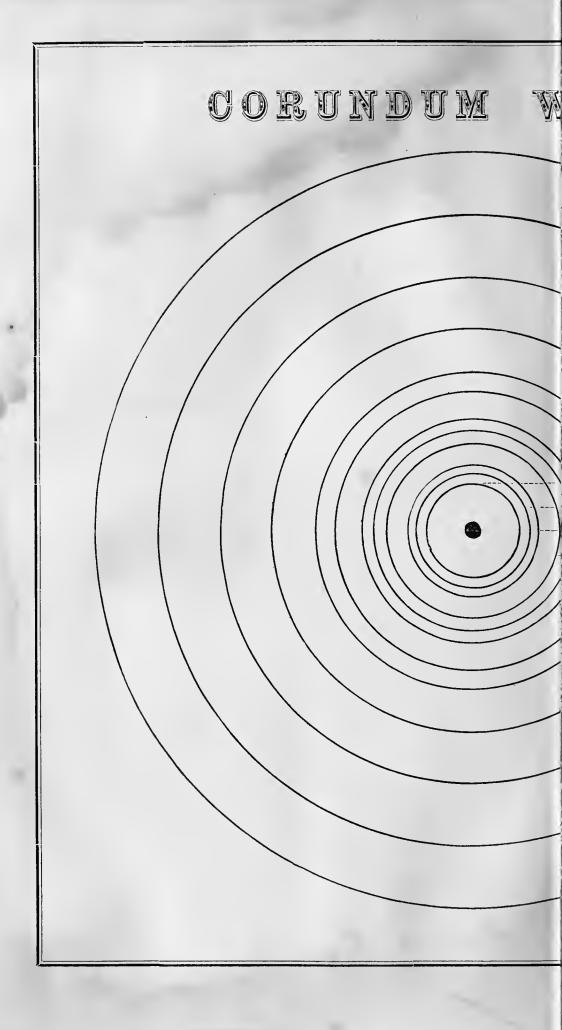
OF THE

DENTAL COSMOS.

(See page 13.)

Lippincott's Press,
Philadelphia.





HEELS.

THICKNESS.

Nos.	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	1 in.
00	\$ 07	\$	\$	\$
0	09			
1	12	18	25	35
2	16	20	30	40
3	20	30	45	60
4	25	40	60	80
5	30	60	90	1.20
6	40	75	1.15	1.50
7	60	1.00	1.50	2.00
8	1.00	1.50	2.50	3.50
9	2.00	3.00	4.00	5.50
10	3.00	4.00	6.00	8.00

Intermediate thicknesses at intermediate prices.
(See page 178.)





CORUNDUM

SLAB, 60 cents.

SMALL SLAB, 30

Half-Round File, 30 cts.

Round File, 30 cts.

FLAT FILE, 30 ce

The outlines describe the size, and are intended (See page 1)

FILES, ETC. 20 с CONE, nts. Large Cup, 40 c. Small Cup. 30 cts. a guide for fixing prices and making out orders.

: 178.)









